

# Computing Reviews



## PERMUTED AND SUBJECT INDEX TO COMPUTING REVIEWS 1964-1965

Edited By

AARON FINERMAN and LEE REVENS

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The Permuted and Subject Index to the first four years of COMPUTING REVIEWS, 1964-1965 inclusive, is an independent work, available at \$15 a copy prepaid from ACM, 211 E. 43 ST., New York, NY 10017 © Association of Computing Machinery, New York, N. Y. The Permuted (KWIC) Index to the first four years of COMPUTING REVIEWS 1960-1963 inclusive, is also available from ACM at \$15 a copy, prepaid.

# PERMUTED AND SUBJECT INDEX

TO

## COMPUTING REVIEWS

1964-1965

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1964-65

Index

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AARON FINERMAN and LEE REVENS



## ACKNOWLEDGMENTS

The project of producing a permuted index of this scope involved the active participation of many individuals and organizations. We single out below some of the principal contributors; however, we express our appreciation to the numerous other participants who made the project possible.

Principally, this was a cooperative venture involving the State University of New York at Stony Brook, and the generously provided resources of the Brookhaven Laboratories. We wish to thank Kurt Fuchel of Brookhaven who took charge of producing Sections 1 and 2 (Bibliography and Author Index), involving many computer runs and programming modifications, and Mrs. Ilse Perlman who assisted him in the many phases of this task. For this contribution by the Brookhaven facilities, we thank Dr. Yoshio Shimamoto and John Denes who set up the mechanism that provided access to Brookhaven's resources.

John Boolukos, of Stony Brook Computing Center staff, was in overall charge of the project; his technical assistance was invaluable in solving programming bugs and in providing the final adequate printout for offset reproduction. Sol Broder, Manager of the Computing Center, cheerfully lent his knowledgeable supervision and guidance in facilitating the operation.

We gratefully acknowledge the unstinting support of J. D. Madden, Executive Director, and Mrs. Irene Hollister, Executive Secretary, ACM, whose ever-present cooperativeness expedited the completion of this project; and the intelligent work of ACM Headquarters staff (particularly Leon Lehrer who supervised, and Miss Concetta Castro who keypunched the many entries) in patiently coping with the diverse problems that had to be resolved.

We, again, owe our sincere thanks to William W. Youden and Frank Sauber of the National Bureau of Standards whose Sauber-Youden Index program was used to generate the Bibliography and Author Sections. The IBM KWIC Program, as modified at Stony Brook, was used to generate the KWIC Section. The Classification Section was obtained by using a program specifically developed by John Boolukos for this purpose.

Finally, we wish to express our deep appreciation for all the attentive critics and alert users who generously informed us of the merits and utility of the previous Index—and articulately prodded us into making the present work both more comprehensive and universally servicable. To these, and other well-wishers, we pledge that subsequent volumes will continue to incorporate suggested improvements, and therefore more nearly approximate our goal of a complete, timely guide to the relentlessly proliferating computer literature.



# INTRODUCTION

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THIS INDEX to COMPUTING REVIEWS, for 1964 and 1965, continues and extends the purposes and services of the first INDEX (1960-63). While the prime purpose is to furnish a permuted and a subject index to COMPUTING REVIEWS, as a natural by-product the work provides an annotated, and critical bibliography to the fully range of computing science literature. Hence, this series represents the largest and most general such Index ever issued.

The present volume incorporates two improvements over the previous INDEX:

First, a major section has been added that, in essence, offers the user not only a permuted index but also a subject index. In the previous INDEX to CR, the subject index aspect had been provided by adding to each title a descriptor (in parenthesis) based on CR's classification system. The reported utility of that subject index has justified its extension in this volume to an independent section (see p. iv).

The second improvement concerns the enrichment of the Bibliography Section by the inclusion of full source citation for the reviewed material. In the earlier INDEX, the principle was that the user, having located materials pertinent to his topic, would go from the citation to the review itself, or as it was expressed in the *Introduction* to that volume: "It should be noted that the Bibliography does not show the material's source, that is, the journal of original publication. The reference number directs the reader to the issue of CR that contains the review of that material. As an index to a review journal, the principal purpose of the reference is to direct the user to specific reviews. But once a review has been located, the user will find at hand all pertinent information about the material, including the exact source of its original appearance."

But feedback from users so often stressed the many advantages of a full citation that complete data on the source of the original material has been made part of each entry in the Bibliography Section. While it is hoped that the user will generally consult the reviews themselves, this additional source citation does make the Bibliography Section a comprehensive check-list of published materials on computing.

## Quantity:

The two years involved more than 3800 separate entries, as numbered reviews. Occasionally, a complete book composed of individual papers by diverse authors had been assigned to one reviewer and had been reviewed as a single entity. When such reviews contain specific discussion of the component papers, additional retrieval service is provided by citing the name and title of each paper in the Bibliography and the various Indexes. Although this increased the tally of individual citations by several hundred authors and titles, it was felt that the additional benefits warranted the

increased size and cost. Because of these added entries, when turning to the referenced review in CR, the user may occasionally not find either the title or the author he is seeking at the head of the review. Rather than assuming the reference is in error, he is advised to scan the body of the review for the reference to the author or title desired.

## Style:

The great diversity of sources of the review materials resulted in a great diversity of styles of even simple or familiar words and names. In its reviews, CR's standard is to reproduce the original title as exactly as is possible, using, for example, the original title wording of "real-time," "realtime," "real time," even though in the review these variants have been edited uniformly to "real-time." In preparing the INDEX, such variously spelled title words have also been edited to a uniform style to assure that all references to "real-time" appear contiguously in the Permuted Index. In general the same procedure was adopted for author names and these were edited to a well-established style. However at times limited access to authoritative sources (the author himself or a basic reference work) made it seem wiser to allow variants to stand. Hence, the user will occasionally find minute differences in the spelling of title words and author names (Chebyshev appeared variously as Cheybyscheff, Tchebyscheff, etc.) as listed in the INDEX and as cited in the reviews themselves.

## TO THE USER

### Reference Code:

The reference number directs the reader to the issue of COMPUTING REVIEWS that contains the review of that material. This reference number is a key to the year, volume, issue and review number. (Thus 6456 6609 represents 1964, volume 5, issue 6, and review number 6609.)

### Bibliography and Author Index:

Apparent redundancies may be noted in the Author Index and the Bibliography. As already mentioned, this results from the policy of citing, when possible, all the contributing authors and their individual papers for anthologies or composite volumes that have a general title and editor. Thus, under a main entry review, the Bibliography will show the principal title (e. g., *Advances in Computers*), and all the authors and editors; but under separate reviews of individual papers, the title and author again. Similarly, the Author Index may show the author twice: once for the principal title, and once for his individual contribution. As an additional service to the reader, if the original paper (not the review) was in a language other than English, the citation indicated the language in parenthesis (e.g., Russian) following the title.

In using the Author Index, multiple reviews of seemingly identical material will occasionally be referenced. This hap-



pens most frequently when the material came as a full (translated) paper from the Office of Technical Services, and was independently picked up at another time from a foreign language abstract or review journal, and cited as a title only. These diverse sources, it may be noted, offer variant translations of titles—as those working in mechanical translation would expect—thus making difficult the editorial problems of eliminating such multiple reviews.

#### *Permuted Index and Classification Index:*

In general, a Permuted Index requires minimal editing, and lets the user develop his own retrieval approaches, cautioning him only as to words that have been blocked, and some inflexibilities of machine indexing. Earlier experience, however, had shown that some titles were so cryptic or even whimsical as to provide almost no hint of the subject matter; or even to escape permuting entirely ("It's Elmer's Turn" for example, does not indicate that Elmer Kubie is being interviewed). To handle such difficulties, the previous INDEX added an identifying descriptor (in parenthesis) which was itself permuted along with the keywords of the title. The addition of a Classification Index to the present work has reduced the need for extensive use of added descriptors.

To maximize the subject index (Classification Section) utility of this volume it is suggested that the user identify the CR category headings (given in full pp. v, vi) that relate to his topic, and systematically search the listing under each Classification at the appropriate subsection levels. The occasionally parallelisms and apparent redundancies of the CR classification system are a tribute to the encompassing range of information processing and its applications. Distinctions and differentiations turn on the fact (implied when not explicit) that computing and information processing are the orientation of the categories. Thus, 1.0 "General Topics and Education" are about computing and education in computing. In 3.32 the "education" stands for the application of computing to education of any sort, (not just of education about computing), as a tool of research in education, as a facilitator of teaching methods (e.g., computer-aided teaching machines, class-room consoles, etc., would be reviewed here); in contrast, at 3.51 the managerial aspects of education, as aided by computer, from student registration and class-sectioning, to the largest problems of school administration are reviewed. Similarly, 5.5 is not statistics, but about computing applied to statistics, as in Monte Carlo methods, and random number generation, and about statistical work that contributes to computing theory and practice.

It may be noted that the Permuted Index and the Classification Section supplement one another in providing the user with, first, a narrow topic guide, and secondly, a safety net. The contrasting virtues and utilities of the two sections may be illustrated by (actual) retrieval questions. If the user wants, for example, materials on class-room sectioning and scheduling by computer, he can, in the Permuted Section

look under *scheduling*, *sectioning*, and even *class assignment*. But, if the author of a paper has used none of these terms in the title, the paper can still be retrieved by looking in 3.32 *Applications in Social Sciences—Education; Welfare*, and in 3.51 *Applications in Management Data Processing—Education*.

The Permuted Index Section is time-saving if the significant word is definite and appears in the title, since the user can then turn immediately to that word in its alphabetical order. The Classification Section provides a longer listing, but guarantees that reading through it will turn up every relevant title, no matter how disguised in its wording. Further, the fact that the reviews were cross-referenced by the reviewer and CR staff assures that materials having a bearing on the user's topic will be retrieved, even if primarily not a title or a classification he would ordinarily consult. Thus, a paper on computing centers at universities (classified under 2.40 *Administration of Computing Centers, General*) that discussed the class-scheduling system produced as a service to the university, would appear under 3.51 because the reviewer had noted its pertinence to this category.

Titles vary in the fashion in which they referred to specific computers and model numbers. Again, to assure consistent permuting, the manufacturer's name (in parenthesis) has been added to the title when the model number was listed without it. The user should therefore look under the manufacturer when seeking references to a specific machine.

#### *Blocked Words:*

Conventionally, a permuted index is modified by a varying number of blocked words—words not used as an entry. These are usually non-significant particles, (a, and, for, which, etc.) To these are frequently added the words in the particular subject matter that would swamp the index by turning up too often. (In this volume, for example, *computing*, *automatic*, *programming*, etc.) A rather more critical standard was necessary for the present INDEX. The user should note that numerals, prepositions, conjunctions, pronouns, auxiliary verbs in all their forms, and the like have been blocked. In addition, vague words (recent, new) and many words that occurred only once or twice, and are not essentially self-evident keywords in computing, have also been blocked (arise, lag, quarterly, today, etc.) Place names have generally (but not always) been blocked.

Hyphens were used when necessary to prevent blocking of phrases consisting of words that are each blocked individually. Thus, although each of the three words in electronic-data-processing is blocked, the phrase is made to permute as a unit by adding hyphens that did not appear in the original title.

The user is reminded that if any entry is not found in the Permuted Section where he expects it, consulting the Classification Section may guide him to the location of material he is seeking.



# CATEGORIES OF THE COMPUTING SCIENCES

## CLASSIFICATION SYSTEM FOR COMPUTING REVIEWS

### 1. GENERAL TOPICS AND EDUCATION

- 1.0 General
- 1.1 Texts; Handbooks
- 1.2 History; Biographies
- 1.3 Introductory and Survey Articles
- 1.4 Glossaries
- 1.5 Education
  - 1.50 General
  - 1.51 High School Courses and Programs
  - 1.52 University Courses and Programs
  - 1.53 Certification; Degrees; Diplomas
  - 1.59 Miscellaneous
- 1.9 Miscellaneous

### 2. COMPUTING MILIEU

- 2.0 General
- 2.1 Philosophical and Social Implications
  - 2.10 General
  - 2.11 Economic and Sociological Effects
  - 2.12 The Public and Computers
  - 2.19 Miscellaneous
- 2.2 Professional Aspects
- 2.3 Legislation; Regulations
- 2.4 Administration of Computing Centers
  - 2.40 General
  - 2.41 Administrative Policies
  - 2.42 Personnel Training
  - 2.43 Operating Procedures
  - 2.44 Equipment Evaluation
  - 2.45 Surveys of Computing Centers
  - 2.49 Miscellaneous
- 2.9 Miscellaneous

### 3. APPLICATIONS

- 3.1 NATURAL SCIENCES
  - 3.10 General
  - 3.11 Astronomy; Space
  - 3.12 Biology
  - 3.13 Chemistry
  - 3.14 Earth Sciences
  - 3.15 Mathematics; Number Theory
  - 3.16 Meteorology
  - 3.17 Physics; Nuclear Sciences
  - 3.19 Miscellaneous
- 3.2 ENGINEERING
  - 3.20 General
  - 3.21 Aeronautical; Space
  - 3.22 Chemical
  - 3.23 Civil
  - 3.24 Electrical; Electronic
  - 3.25 Engineering Science
  - 3.26 Mechanical
  - 3.29 Miscellaneous
- 3.3 SOCIAL and BEHAVIORAL SCIENCES
  - 3.30 General
  - 3.31 Economics

- 3.32 Education; Welfare
- 3.33 Law
- 3.34 Medicine; Health
- 3.35 Political Science
- 3.36 Psychology; Anthropology
- 3.37 Sociology
- 3.39 Miscellaneous

### 3.4 HUMANITIES

- 3.40 General
- 3.41 Art
- 3.42 Language Translation and Linguistics
- 3.43 Literature
- 3.44 Music
- 3.49 Miscellaneous

### 3.5 MANAGEMENT DATA PROCESSING

- 3.50 General
- 3.51 Education; Research
- 3.52 Financial
- 3.53 Government
- 3.54 Manufacturing; Distribution
- 3.55 Marketing; Merchandising
- 3.56 Military
- 3.57 Transportation; Communication
- 3.59 Miscellaneous

### 3.6 ARTIFICIAL INTELLIGENCE

- 3.60 General
- 3.61 Induction and Hypothesis-formation
- 3.62 Learning and Adaptive Systems
- 3.63 Pattern Recognition
- 3.64 Problem-solving
- 3.65 Simulation of Natural Systems
- 3.66 Theory of Heuristic Methods
- 3.69 Miscellaneous

### 3.7 INFORMATION RETRIEVAL

- 3.70 General
- 3.71 Content Analysis
- 3.72 Evaluation of Systems
- 3.73 File Maintenance
- 3.74 Searching
- 3.75 Vocabulary
- 3.79 Miscellaneous

### 3.8 REAL TIME SYSTEMS

- 3.80 General
- 3.81 Communications
- 3.82 Industrial Process Control
- 3.83 Telemetry; Missiles; Space
- 3.89 Miscellaneous

### 3.9 Miscellaneous

### 4. PROGRAMMING

- 4.0 General
- 4.1 Processors
  - 4.10 General
  - 4.11 Assemblers
  - 4.12 Compilers and Generators
  - 4.13 Interpreters

- 4.19 Miscellaneous
- 4.2 Programming Languages
  - 4.20 General
  - 4.21 Machine Oriented Languages
  - 4.22 Procedure and Problem Oriented Languages
  - 4.29 Miscellaneous
- 4.3 Supervisory Systems
  - 4.30 General
  - 4.31 Basic Monitors
  - 4.32 Multiprogramming; Multiprocessing
  - 4.39 Miscellaneous
- 4.4 Utility Programs
  - 4.40 General
  - 4.41 Input/Output
  - 4.42 Debugging
  - 4.43 Program Maintenance
  - 4.49 Miscellaneous
- 4.9 Miscellaneous
- 5. MATHEMATICS OF COMPUTATION
  - 5.0 General
  - 5.1 NUMERICAL ANALYSIS
    - 5.10 General
    - 5.11 Error Analysis; Computer Arithmetic
    - 5.12 Function Evaluation
    - 5.13 Interpolation; Functional Approximation
    - 5.14 Linear Algebra
    - 5.15 Nonlinear and Functional Equations
    - 5.16 Numerical Integration and Differentiation
    - 5.17 Ordinary and Partial Differential Equations
    - 5.18 Integral Equations
    - 5.19 Miscellaneous
  - 5.2 METATHEORY
    - 5.20 General
    - 5.21 Formal Logic
    - 5.22 Automata; Turing Machines
    - 5.23 Mechanical and Algorithmic Languages
    - 5.24 Theory of Programming
    - 5.29 Miscellaneous
- 5.3 COMBINATORIAL and DISCRETE MATHEMATICS
  - 5.30 General
  - 5.31 Sorting
  - 5.32 Graph Theory
  - 5.39 Miscellaneous
- 5.4 MATHEMATICAL PROGRAMMING
  - 5.40 General
  - 5.41 Linear and Nonlinear Programming
  - 5.42 Dynamic Programming
  - 5.49 Miscellaneous
- 5.5 Mathematical Statistics; Probability
- 5.6 Information Theory
- 5.9 Miscellaneous
- 6. DESIGN AND CONSTRUCTION
  - 6.0 General
  - 6.1 Logical Design; Switching Theory
  - 6.2 Computer Systems
    - 6.20 General
    - 6.21 General Purpose Computers
    - 6.22 Special Purpose Computers
    - 6.29 Miscellaneous
  - 6.3 Components and Circuits
    - 6.30 General
    - 6.31 Circuit Elements
    - 6.32 Arithmetic Units
    - 6.33 Control Units
    - 6.34 Storage Units
    - 6.35 Input/Output Equipment
    - 6.36 Auxiliary Equipment
    - 6.39 Miscellaneous
  - 6.9 Miscellaneous
- 7. ANALOG COMPUTERS
  - 7.0 General
  - 7.1 Applications
  - 7.2 Design; Construction
  - 7.3 Hybrid Systems
  - 7.4 Programming; Techniques
  - 7.9 Miscellaneous



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6565 8060 INTRODUCTORY COMPUTER METHODS AND NUMERICAL ANALYSIS  
6565 8061 DICTIONARY OF DATA PROCESSING  
6565 8062 ELECTRONIC EQUIPMENT FOR COMPUTATION AND CONTROL  
6565 8063 FUNDAMENTALS OF COMPUTER MATH  
6565 8068 FUNDAMENTALS OF DATA PROCESSING  
6565 8222 THEORY OF SAMPLED-DATA CONTROL SYSTEMS  
6565 8242 ELEMENTS OF COMPUTER PROGRAMMING  
6566 8421 STRUCTURAL MODELS, AN INTRODUCTION TO THE THEORY OF DIRECTED GRAPHS  
6566 8422 PROC. ACM 20TH NATL. CONF., CLEVELAND, OHIO, AUG. 1965

GENERAL TOPICS AND EDUCATION = GENERAL

## 1.20 GENERAL TOPICS AND EDUCATION HISTORY, BIOGRAPHIES

6452 5174 HISTORICAL DEVELOPMENT AND BIBLIOGRAPHIC REFERENCES, AUTOMATIC COMPUTING MACHINES, 650-717  
6453 5486 DIGITAL COMPUTER DEVELOPMENT IN JAPAN  
6455 6138 THE ELECTRONIC DATA PROCESSING SYMPOSIUM, OPENING ADDRESS  
6455 6141 GAMES, GODS AND GAMBLING  
6455 6142 THE ANALYTICAL ENGINE, PARTS I AND II  
6455 6229 BUSINESS DATA PROCESSING, A REVIEW  
6455 6299 COMPUTER PROGRAMMING SYSTEMS  
6456 6490 THE ANALYTICAL ENGINE, COMPUTERS, PAST, PRESENT AND FUTURE  
6561 6824 IRASCIBLE GENIUS  
6561 6825 UNDERSTANDING AUTOMATION, MORE ABOUT DIFFERENCE ENGINES  
6561 6826 AN HISTORICAL EVENT, ENIAC  
6562 7110 THE TREASURY OF MATHEMATICS  
6562 7111 UNDERSTANDING AUTOMATION, A PICTORIAL HISTORY OF COMPUTERS  
6562 7112 COMPUTERS LEAVE TOWER OF BABEL AND BEGIN TO LEARN A COMMON LANGUAGE  
6562 7178 LANGUAGE AND INFORMATION, SELECTED ESSAYS ON THEIR THEORY AND APPLICATION  
6562 7348 WAYS OF THOUGHT OF GREAT MATHEMATICIANS  
6562 7358 BACKUS NORMAL FORM VS. BACKUS NAUR FORM  
6563 7473 COMPUTERS AND THOUGHT  
6564 7777 CYBERNETICS  
6565 8064 THE CENTRO DE CALCULO ELECTRONICO OF THE UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO  
6565 8065 CHARLES BABBAGE (1792-1871)  
6565 8066 EXTRAPOLATIONS

## 1.30 GENERAL TOPICS AND EDUCATION INTRODUCTORY AND SURVEY ARTICLES

6451 4933 COMMERCIAL DATA PROCESSING  
6452 5175 STANDARDS FOR INFORMATION PROCESSING, A PROGRESS REPORT  
6453 5487 A SURVEY OF NEW WEST-EUROPEAN DIGITAL COMPUTERS, 3 PTS.  
6453 5488 DEVELOPMENT OF THE COMPUTER MARKET IN EUROPE, AUTOMATIC INFORMATION PROCESSING IN THE EEC  
6453 5489 APPLICATIONS OF DIGITAL COMPUTERS  
6453 5490 ELECTRONIC COMPUTERS  
6453 5491 ROBOTS AND ELECTRONIC BRAINS  
6453 5492 FUNDAMENTALS ON THE OPERATION OF DIGITAL COMPUTERS  
6453 5704 STATE OF THE ART IN SCIENTIFIC COMPUTING  
6454 5848 USING DECISION STRUCTURE TABLES  
6454 5849 INDEX TO THE JOURNAL OF THE ASSOCIATION FOR COMPUTING MACHINERY, VOLUMES 1-10 (1954-1963)  
6454 5850 ELECTRONIC COMPUTERS IN THE SERVICE OF THE NATIONAL ECONOMY  
6454 5851 COMPUTERS AND SIMULATION  
6454 5852 MODELING AND SIMILARITY THEORY  
6454 5853 COMPUTER EDUCATION  
6454 5963 GOVERNMENT SERVICES FOR TECHNICAL INFORMATION  
6455 6137 ELECTRONIC COMPUTER EXHIBITION, OPENING SPEECH  
6455 6138 THE ELECTRONIC DATA PROCESSING SYMPOSIUM, OPENING ADDRESS  
6455 6142 THE ANALYTICAL ENGINE, PARTS I AND II  
6455 6143 POINTING THE WAY FOR THE SMALLER USER, SURVEY OF THE COMPUTER BUREAU SERVICE  
6455 6144 SOVIET CYBERNETICS TECHNOLOGY, II GENERAL CHARACTERISTICS OF SEVERAL SOVIET COMPUTERS  
6455 6145 THE SPECTRUM OF INFORMATION PROCESSING  
6455 6146 MULTIPLE COMPUTER SYSTEMS  
6455 6147 GREAT IDEAS OF MODERN MATHEMATICS, THEIR NATURE AND USE  
6455 6148 THE SCIENCE WITH THE GREATEST POSSIBILITIES  
6455 6149 CYBERNETICS, A MAJOR FACTOR IN SCIENTIFIC AND TECHNICAL PROGRESS  
6455 6244 PROGRESS IN THE INTRODUCTION OF AUTOMATIC DATA PROCESSING INTO GOVERNMENT DEPARTMENTS, MARCH 1961  
6455 6326 GENERALIZED MULTIPROCESSING AND MULTIPROGRAMMING SYSTEMS  
6455 6401 LEARNING, GENERALITY AND PROBLEM-SOLVING  
6455 6403 NEW DECISION-MAKING TOOLS FOR MANAGERS  
6455 6481 HYBRID COMPUTER TECHNIQUES FOR THE SOLUTION OF ENGINEERING PROBLEMS  
6456 6486 RUSSIAN-ENGLISH MATHEMATICAL VOCABULARY  
6456 6491 DECISION THEORY AND SYSTEMS ANALYSIS  
6456 6492 COMPUTERS: THE MACHINES WE THINK WITH  
6456 6493 MATHEMATICAL PROBLEMS OF MODERN CYBERNETICS  
6456 6494 SCIENCE AND METHOD  
6456 6495 THE FABULOUS WORLD OF REAL TIME-LAND  
6456 6496 OLD MAC DONALD HAD SOME TAPE  
6456 6497 THE AUDITOR'S ROLE IN EDP  
6456 6498 ELECTRONIC DIGITAL COMPUTERS OUTSIDE OF THE USSR  
6456 6499 INTEGRATED AUTOMATIC CONTROL SYSTEMS, APPLICATIONS AND FRONTIERS  
6456 6553 DIGITAL AND ANALOG COMPUTATION CONSIDERATIONS FOR BIOMEDICAL PROBLEMS  
6561 6827 THE CENTURY OF SCIENCE  
6561 6828 JURIMETRICS AND GENERAL SEMANTICS  
6561 6829 COMPUTERS AND THEIR USES  
6561 6830 COMPUTERS, WHAT'S AVAILABLE IN THE BARGAIN BASEMENT  
6561 6831 MAN, MEMORY, AND MACHINES  
6561 6832 HOLIDAY HANDBOOK OF THINK MACHINES  
6561 6922 IMPACT OF COMPUTER TECHNOLOGY ON COMMUNICATIONS  
6561 6927 FUNDAMENTALS OF STORED PROGRAM CONTROL OF TELEPHONE SWITCHING SYSTEMS  
6562 7113 A MODEL TO DESCRIBE THE FUNCTIONING OF AN ELECTRONIC DATA PROCESSING SYSTEM  
6562 7114 THIS IS AUTOMATION  
6563 7473 COMPUTERS AND THOUGHT  
6564 7824 USING THE COMPUTER FOR SIMPLE MANIPULATIONS OF DATA AND INFORMATION, A SUGGESTED PROGRAM  
6564 7919 WHAT IS THE USE OF OPERATING SYSTEMS  
6565 8067 AN INTRODUCTION TO COMPUTER NUMBERING SYSTEMS, A PROGRAMMED TEST  
6565 8068 FUNDAMENTALS OF DATA PROCESSING  
6565 8069 CYBERNETICS, MATHEMATICAL MACHINES AND THEIR USE  
6565 8070 THE PRESENT DAY STATE OF COMPUTING TECHNOLOGY OUTSIDE OF  
6565 8248 AN INTRODUCTION TO PROGRAMMING LANGUAGES  
6566 8422 PROC. ACM 20TH NATL. CONF., CLEVELAND, OHIO, AUG. 1965  
6566 8423 SOME ASPECTS OF THE EVOLUTION OF GENERAL PURPOSE DIGITAL AND ANALOG COMPUTER FACILITIES IN THE LAST 5 YEARS. CONSEQUENCES OF THIS EVOLUTION ON ORGANIZATION OF COMPUTING CENTERS  
6566 8424 BASIC CONCEPTS FOR PLANNING ADVANCED ELECTRONIC-DATA-PROCESSING SYSTEMS  
6566 8425 CYBERNETICS AND BIOLOGY  
6566 8426 CYBERNETICS AND ITS DEVELOPMENT IN THE SOVIET UNION

GENERAL TOPICS AND EDUCATION = INTRODUCTORY+SURVEY ARTICLES



6566 8427 THE REAL MEANING OF DATA COMMUNICATIONS  
 6566 8428 PROGRAMMING IMPLICATIONS OF HARDWARE TRENDS  
 6566 8429 ADVANCED CONCEPTS OF UTILIZATION OF MASS STORAGE  
 6566 8430 METHODS AND PROCEDURES. (DECISION=MAKING)  
 6566 8431 TECHNOLOGICAL CONSIDERATIONS. (DECISION=MAKING)  
 6566 8432 THE USE OF COMPUTERS. (DECISION=MAKING)  
 6566 8437 COMPUTERS IN THE USA = TODAY AND TOMORROW  
 6566 8449 SMALL COMPUTERS, A BILLION DOLLAR MARKET BY 1970  
 6566 8455 SMALL ENGINEERING COMPUTERS  
 6566 8506 ASSUMPTIONS ABOUT ENEMY BEHAVIOR  
 6566 8507 RECAPITULATION  
 6566 8508 A MISSILE COMPARISON  
 6566 8680 THE WHY AND HOW OF MODEL BUILDING  
 6566 8682 GAMING METHODS AND APPLICATIONS  
 6566 8683 STRATEGIES FOR DEVELOPMENT  
 6566 8684 MATHEMATICS AND SYSTEMS ANALYSIS

#### 1.40 GENERAL TOPICS AND EDUCATION GLOSSARIES

6451 4934 TECHNICAL STANDARDS COMMITTEE INFORMATION PROCESSING  
 OF THE GERMAN STANDARDS COMMITTEE ALGOL=GLOSSARY  
 6451 4935 DICTIONARY OF MODERN ACRONYMS AND ABBREVIATIONS  
 6452 5369 GERMAN=ENGLISH MATHEMATICS DICTIONARY  
 6453 5493 USA PARTICIPATION IN AN INTERNATIONAL GLOSSARY ON  
 INFORMATION PROCESSING  
 6456 6500 COMMUNICATIONS DICTIONARY  
 6456 6501 THE SCIENTIST'S THESAURUS  
 6456 6620 COMPILING A TECHNICAL THESAURUS  
 6561 6833 ABBREVIATIONS DICTIONARY  
 6561 6834 PROBLEMS OF TERMINOLOGY AND THE CLASSIFICATION OF HARDWARE  
 IN COMPUTING TECHNOLOGY  
 6562 7115 THE TERMINOLOGY WORK OF IFIP AND ICC  
 6563 7490 TEACHING MACHINES AND PROGRAMMED LEARNING, ROSTER OF  
 ORGANIZATIONS AND WHAT THEY ARE DOING  
 6564 7778 GLOSSARY OF DATA PROCESSING AND COMMUNICATIONS TERMS  
 6564 7910 ENGLISH EQUIVALENTS OF METALINGUISTIC TERMS OF RUSSIAN  
 ALGOL  
 6565 8061 DICTIONARY OF DATA PROCESSING  
 6565 8071 THE TERMINOLOGY WORK OF IFIP AND ICC  
 6565 8072 ELECTRONIC DATA PROCESSING FOR THE INTERNATIONAL VOCABULARY  
 OF TERMS USED IN INFORMATION PROCESSING  
 6565 8204 GRAPHIC SYMBOLS FOR PROBLEM DEFINITION AND ANALYSIS, A  
 STANDARDS WORKING PAPER  
 6566 8543 ACM OPPOSES ACCEPTANCE OF ETA STANDARD RS=244 AS AN  
 AMERICAN STANDARD ON A PAR WITH ASCII

#### 1.50 GENERAL TOPICS AND EDUCATION EDUCATION = GENERAL

6451 4964 THE ROLE OF THE COMPUTER IN FUTURE INSTRUCTIONAL SYSTEMS  
 6452 5187 TESTING PROGRAMMING APTITUDE  
 6453 5494 THE COMPUTER IN EDUCATION, MALEFACTOR OR BENEFACTOR  
 6453 5495 A SELECT BIBLIOGRAPHY ON DIGITAL COMPUTER EDUCATION  
 6453 5496 SCHOOLS AND ELECTRONIC DATA PROCESSING, AN EXPERIMENT  
 6453 5497 LOGIC SYSTEMS IN AUTOMATIC SYSTEMS  
 6454 5853 COMPUTER EDUCATION  
 6454 5854 STATUS OF COMPUTER SCIENCES CURRICULA IN COLLEGES AND  
 UNIVERSITIES  
 6454 5855 COMPUTERS AND EDUCATION  
 6454 5856 THE COMPUTER AND INFORMATION SCIENCES, A NEW BASIC  
 DISCIPLINE  
 6454 6003 SYMBOLIC ADDRESS CODING BASED ON ALGOL  
 6455 6150 CONVERTING UNSKILLED WORKERS INTO COMPUTER PROGRAMMERS  
 6455 6336 SOME EXAMPLES OF NUMERICAL METHODS AND THE PHILOSOPHY BEHIND  
 THEM  
 6456 6502 COMPUTER TRAINING FACILITIES  
 6456 6503 PROGRAMMED INSTRUCTION IN COMPUTING  
 6561 6822 INTRODUCTION TO BOOLEAN ALGEBRA AND LOGIC DESIGN  
 6561 6835 COMPUTER EDUCATION IN THE SECONDARY SCHOOLS  
 6561 6836 AN INTRODUCTION TO CYBERNETICS  
 6561 6837 EVALUATING AND USING PROGRAMMED INSTRUCTION  
 6562 7116 AUTO-INSTRUCTIONAL TECHNOLOGY AND DATA PROCESSING  
 6562 7117 USING PROGRAMS TO TEACH PROGRAMING SKILLS  
 6563 7477 A POOR MAN'S COMPUTER  
 6563 7565 A GENERAL SYSTEM MODEL OF PUBLIC EDUCATION K=12  
 6563 7629 PROGRAMMING A COMPUTER IN ATLAS AUTOCODE  
 6563 7638 A LIGHTPEN=CONTROLLED PROGRAM FOR ONLINE DATA ANALYSIS  
 6564 7776 INTRODUCTION TO COMPUTER SCIENCE AND DATA PROCESSING  
 6564 7779 DATA PROCESSING SYSTEMS IN THE SECRETARIAL PRACTICE CLASS  
 6564 7785 EDUCATION AUTOMATION, FREEING THE SCHOLAR TO RETURN TO HIS  
 STUDIES  
 6565 8073 AUTOMATIC GRADING OF STUDENTS' ALGOL PROGRAMMING  
 6565 8074 THE TEACHING OF COMPUTING  
 6565 8075 COMPUTER SCIENCE AT WEST POINT. PART I, PHILOSOPHY  
 6565 8105 DATA PROCESSING, AN OLD SHOE WITH A NEW SOLE, PT. I  
 IMPLICATIONS OF THE RAPIDLY CHANGING COMPUTER TECHNOLOGY,  
 FOR COLLEGIATE BUSINESS EDUCATION, PT. II, FOR GUIDANCE  
 COUNSELORS, PT. III, FOR DATA PROCESSING MANAGERS, PT. IV  
 6565 8242 ELEMENTS OF COMPUTER PROGRAMMING  
 6566 8433 SUMMER SCHOOL ON ADVANCES IN PROGRAMMING AND NON-NUMERICAL  
 ANALYSIS  
 6566 8434 THE EDUCATION OF SCIENCE INFORMATION PERSONNEL = 1964  
 6566 8447 THE PERSONNEL DEVELOPMENT PROBLEMS = AUGUST 1965

#### 1.51 GENERAL TOPICS AND EDUCATION EDUCATION = HIGH SCHOOL COURSES AND PROGRAMS

6453 5498 AN INTRODUCTION TO LINEAR PROGRAMMING  
 6455 6151 COMPUTERS, THEORY AND USES  
 6455 6152 A TEACHER'S GUIDE TO COMPUTERS, THEORY AND USES  
 6562 7118 HIGH SCHOOL COMPUTER PROGRAMMER CURRICULUM  
 6562 7119 DATA PROCESSING TEACHING UNIT FOR A SECRETARIAL PRACTICE  
 CLASS  
 6562 7120 THE NEW MATHEMATICS PROGRAMS  
 6562 7290 SCHOOL MATHEMATICS PROJECT, BOOK T  
 6563 7478 NUMERICAL ANALYSIS  
 6563 7766 HYBRID COMPUTATION, WHAT IS IT AND WHO NEEDS IT  
 6564 7780 UNDERSTANDING THE NEW MATHEMATICS  
 6564 7781 CAN BUSINESS EDUCATION STUDENTS QUALIFY FOR DATA PROCESSING  
 JOBS  
 6564 7821 MOSCOW IN MAY 1963, EDUCATION AND CYBERNETICS  
 6564 8003 GROUPS AND THEIR GRAPHS  
 6565 8056 KEEPING AHEAD OF MACHINES

GENERAL TOPICS AND EDUCATION = INTRODUCTORY+SURVEY ARTICLES

6565 8076 DPMA'S 'FUTURE DATA PROCESSORS', AN INNOVATION  
 6565 8077 DATA PROCESSING INSTRUCTION IN THE HIGH SCHOOL, YES

#### 1.52 GENERAL TOPICS AND EDUCATION EDUCATION = UNIVERSITY COURSES AND PROGRAMS

6453 5483 PRINCIPLES OF ELECTRON DEVICES  
 6453 5499 THE NEW BUSINESS STATISTICS, ITS IMPLEMENTATION IN THE BASIC  
 REQUIRED COURSE  
 6454 5857 THE PLACE OF LOGICAL DESIGN AND SWITCHING THEORY IN THE  
 COMPUTER CURRICULUM  
 6454 5858 PROGRAMMING OF DIGITAL COMPUTERS  
 6454 5859 ON INTRODUCING DIGITAL COMPUTING  
 6455 6153 LOGIC FOR THE COMPUTER SCIENCES  
 6455 6154 AN UNDERGRADUATE CURRICULUM IN NUMERICAL ANALYSIS  
 6455 6155 MECHANICAL LANGUAGES, A COURSE SPECIFICATION  
 6561 6838 FORTRAN IV ON VIDEOTAPE, AN EXPERIMENT IN TELEvised  
 PROGRAMMER TRAINING  
 6563 7479 COMPUTER TUTORING IN STATISTICS  
 6563 7480 M=SC. COURSE IN COMPUTER APPLICATIONS AT TRINITY COLLEGE  
 6563 7522 COMPUTER=AIDED TEACHING  
 6563 7544 THE COMPUTER SEEN AS A TECHNOLOGICAL AID TO HUMANITIES  
 RESEARCH IN THE INDEX TO THE 'REVISTA DE FILOLOGIA ESPANOLA'  
 6563 7562 DESIRABLE COMPUTING FACILITIES FOR A COLLEGE OF ADVANCED  
 TECHNOLOGY  
 6564 7782 COMMERCIAL COMPUTER EDUCATION  
 6565 8078 TEACHING MATHEMATICS WITH ANALOG COMPUTERS  
 6566 8435 EDUCATION AND TRAINING OF A BUSINESS PROGRAMMER  
 6566 8436 AUTOMATIC GRADING PROGRAMS  
 6566 8465 COMPUTER-MEDIATED INSTRUCTION = A SURVEY OF NEW  
 DEVELOPMENTS  
 6566 8574 SPECIAL FUNCTIONS AND THEIR APPLICATIONS

#### 1.53 75N5RL TOPICS AND EDUCATION EDUCATION = CERTIFICATION, DEGREES, DIPLOMAS

6566 8442 IS COMPUTING A PROFESSION

#### 1.59 GENERAL TOPICS AND EDUCATION EDUCATION = MISCELLANEOUS

6451 4936 GROUP PARTICIPATION COMPUTER DEMONSTRATION  
 6452 5176 COUNSELORS, GRADUATE STUDENTS INTO DATA PROCESSING JOBS  
 6452 5187 TESTING PROGRAMMING APTITUDE  
 6454 5860 PROFESSIONAL COMPUTER WORK FOR THE BLIND  
 6455 6161 CYBERNETICS  
 6455 6230 THE PROBLEMS OF EDUCATION FOR ADP  
 6456 6502 COMPUTER TRAINING FACILITIES  
 6561 6837 EVALUATING AND USING PROGRAMMED INSTRUCTION  
 6562 7276 ALGOL MANUAL, AN INTRODUCTION TO PROGRAMMING  
 6562 7279 PROGRAMMING IN ALGOL  
 6565 8079 ENGINEERING COMMUNICATIONS  
 6566 8434 THE EDUCATION OF SCIENCE INFORMATION PERSONNEL = 1964  
 6566 8525 THE IEEE PROGRAM FOR THE IMPROVEMENT OF INFORMATION  
 DISSEMINATION AND RETRIEVAL

#### 1.90 GENERAL TOPICS AND EDUCATION MISCELLANEOUS

6451 4937 COMMUNICATION, A LOGICAL MODEL  
 6452 5172 PROPOSED STANDARD, MATHEMATICAL SYMBOLS FOR BOOLEAN  
 ALGEBRA (APRIL 1963, DRAFT)  
 6452 5177 REPORT ON PROPOSED AMERICAN STANDARD FLOWCHART SYMBOLS  
 FOR INFORMATION PROCESSING  
 6452 5178 THE ORGANIZATION OF LIFE AS A TECHNICAL PROBLEM  
 6452 5179 A PRIMER ON STANDARDS AND THE GROUPS PROPOSING THEM  
 6454 5846 THE MULTIPLICITY OF THOUGHT  
 6456 6494 SCIENCE AND METHOD  
 6456 6534 AUTOMATIC START-UP OF POWER STATIONS  
 6561 6839 PLANNING AND PREPARING DATA=FLOW DIAGRAMS  
 6561 6840 SHOULD ACM HAVE GRADED MEMBERSHIPS  
 6561 6841 THE VALUE OF SCIENCE  
 6562 7228 THE COVERAGE OF HEAVY ELECTRICAL ENGINEERING PERIODICAL  
 LITERATURE BY ABSTRACTS JOURNALS  
 6563 7481 BULETIN DE INFORMARE STIINTIFICA  
 6563 7482 BULETIN DE INFORMARE STIINTIFICA  
 6564 7783 TRANSPARENT=MODE CONTROL PROCEDURES FOR DATA COMMUNICATION,  
 USING THE AMERICAN STANDARD CODE FOR INFORMATION  
 INTERCHANGE, A TUTORIAL  
 6564 7784 PROPOSED REVISED AMERICAN STANDARD CODE FOR INFORMATION  
 INTERCHANGE  
 6564 7902 SOFTWARE, COPYRIGHT AND OTHER KINDS OF CONTROL  
 6564 7903 PROPRIETARY RIGHTS IN PROGRAMS  
 6565 8080 EXPANDING THE EDITING FUNCTION IN LANGUAGE DATA PROCESSING  
 6565 8081 AUTOMATION AND COMPUTING TECHNOLOGY. 4. (WORKS OF THE  
 INSTITUTE OF ELECTRONICS AND COMPUTING TECHNOLOGY OF THE  
 LATVIAN ACADEMY OF SCIENCES, 4)  
 6565 8082 COMPUTING MATHEMATICS AND TECHNOLOGY. THE WORKS OF THE  
 CANDIDATES OF THE INSTITUTE OF CYBERNETICS OF THE  
 UKRAINIAN ACADEMY OF SCIENCES

#### 2.00 COMPUTING MILIEU GENERAL

6452 5465 DATA=DIAL, TWO=WAY COMMUNICATION WITH COMPUTERS FROM  
 ORDINARY DIAL TELEPHONES  
 6453 5500 SOPHISTICATION IN COMPUTERS, A DISAGREEMENT  
 6454 5849 INDEX TO THE JOURNAL OF THE ASSOCIATION FOR COMPUTING  
 MACHINERY, VOLUMES 1=10 (1954=1963)  
 6454 5861 THE NETHERLANDS AUTOMATIC INFORMATION PROCESSING RESEARCH  
 CENTRE  
 6454 5862 COMPUTERS AND THE CONTINENT  
 6455 6143 POINTING THE WAY FOR THE SMALLER USER, SURVEY OF THE  
 COMPUTER BUREAU SERVICE  
 6456 6484 COMPUTER ENGINEERS (CORRESPONDENCE ADDRESSED TO  
 COMPUT. BULL. 1)  
 6561 6829 COMPUTERS AND THEIR USES  
 6561 6842 A CRITICAL REVIEW OF THE STATE OF THE PROGRAMMING ART  
 6562 7121 ADP, THE STILL=SLEEPING GIANT  
 6562 7254 PRINCIPLES OF DIGITAL COMPUTERS, PT. 1, GENERAL INTRODUCTION

COMPUTING MILIEU = GENERAL

6565 8083 POLAND IS TAKING BIG STRIDES IN COMPUTER FIELD  
 6566 8437 COMPUTERS IN THE USA - TODAY AND TOMORROW  
 6566 8438 THE URGENT QUEST FOR STANDARDS

6562 7129 A LOOK AT DATA COMMUNICATIONS  
 6563 7487 THE ROLE OF COMPUTERS IN ELECTION NIGHT BROADCASTING  
 6565 8078 TEACHING MATHEMATICS WITH ANALOG COMPUTERS  
 6565 8084 THE AUTOMATION HYSTERIA

## 2.10 COMPUTING MILIEU

PHILOSOPHICAL + SOCIAL IMPLICATIONS - GENERAL

6451 4938 AUTOMATION  
 6451 4939 AUTOMATION, WEAL OR WOE  
 6451 4940 THE INFORMATION MACHINE  
 6451 4941 THE COMPUTER COMES TO MARKETING  
 6451 4964 THE ROLE OF THE COMPUTER IN FUTURE INSTRUCTIONAL SYSTEMS  
 6452 5180 ELECTRONIC COMPUTERS AND SCIENTIFIC RESEARCH (PART 1)  
 6452 5181 CYBERNETICS AND LABOR PSYCHOLOGY  
 6452 5218 TECHNICAL INTERPRETATION OF BIOLOGICAL AND SOCIAL PHENOMENA  
 IN THE FIELD OF CYBERNETICS OUTSIDE THE SOVIET UNION  
 6452 5235 INTERACTIONS BETWEEN FUTURE COMPUTER DEVELOPMENTS AND  
 AUTOMATED TEACHING METHODS  
 6452 5294 A COMPUTER PROGRAM FOR EDITING THE NEWS  
 6452 5302 CAN A COMPUTER THINK  
 6453 5489 APPLICATIONS OF DIGITAL COMPUTERS  
 6453 5501 PURPOSEFUL AND UNPURPOSEFUL COMPUTING  
 6453 5554 COMPUTERS AND THE ADMINISTRATION OF JUSTICE  
 6453 5622 CENTRALIZATION AND DOCUMENTATION  
 6454 5869 RESULT OF A DEBATE ON ETHICS OF COMPUTATION  
 6454 5870 THE ETHICS OF COMPUTATION  
 6455 6156 THE FUTURE OF COMPUTERS  
 6455 6157 THE SIGNIFICANCE OF CYBERNETICS IN SCIENCE, TECHNOLOGY  
 AND ECONOMY IN THE GERMAN DEMOCRATIC REPUBLIC  
 6455 6158 CONFERENCE ON THE PHILOSOPHICAL PROBLEMS OF CYBERNETICS  
 6455 6255 SYMPOSIUM ON ARTIFICIAL INTELLIGENCE  
 6456 6504 THE '480'  
 6456 6505 COMPUTERS AND PSYCHOLOGY  
 6456 6506 ADP WORKS FOR INTERNAL REVENUE  
 6456 6507 AN ETHOS FOR THE AGE OF CYBERCULTURE  
 6561 6831 MAN, MEMORY, AND MACHINES  
 6561 6843 A CONFERENCE ON THE PHILOSOPHICAL PROBLEMS OF CYBERNETICS,  
 MOSCOW, JUNE 1962  
 6561 6873 NOTES ON THE SYNTHESIS OF FORM  
 6562 7122 AUTOMATA, THINKING AND LIFE  
 6562 7123 IMPLICATIONS OF COMPUTER USAGE  
 6562 7124 THE IMPACT OF THE COMPUTER, A MANAGEMENT VIEW  
 6562 7167 DECISION THEORY IN LAW, SCIENCE AND TECHNOLOGY  
 6564 7785 EDUCATION AUTOMATION, FREEING THE SCHOLAR TO RETURN TO HIS  
 STUDIES  
 6565 8080 EXPANDING THE EDITING FUNCTION IN LANGUAGE DATA PROCESSING  
 6565 8084 THE AUTOMATION HYSTERIA  
 6565 8085 CYBORG, EVOLUTION OF THE SUPERMAN  
 6565 8086 THE PROMISE AND CHALLENGE OF THE COMPUTER  
 6566 8439 SOCIAL RESPONSIBILITY AND COMPUTERS  
 6566 8440 DISCUSSION - PRESERVING ANONYMITY IN SOCIAL DATA SYSTEMS  
 6566 8524 AN ESSAY IN INFORMATION RETRIEVAL OR THE BIRTH OF A MYTH

## 2.11 COMPUTING MILIEU

PHILOSOPHICAL + SOCIAL IMPLICATIONS - ECO. + SOCIOL. EFFECTS

6453 5488 DEVELOPMENT OF THE COMPUTER MARKET IN EUROPE, AUTOMATIC  
 INFORMATION PROCESSING IN THE EEC  
 6453 5502 SOME SOCIAL ASPECTS OF AUTOMATION  
 6453 5573 IMPACT OF OFFICE AUTOMATION IN THE INTERNAL REVENUE SERVICE  
 6454 5863 SOCIAL PLANNING FOR AUTOMATION  
 6454 5864 HOW TO AVOID CLERICAL REDUNDANCY  
 6454 5865 THE CURRENT STATE OF THE COMPUTER FIELD IN BRITAIN  
 6454 5866 DESIGNING A COMPUTER CENTER  
 6454 5867 IMPLICATIONS OF AUTOMATION AND OTHER TECHNOLOGICAL  
 DEVELOPMENTS, A SELECTED ANNOTATED BIBLIOGRAPHY  
 6454 5868 LABOR'S VIEWPOINT IN APPLICATIONS OF COMPUTERS  
 6454 5931 ORGANIZATIONAL PROBLEMS DUE TO PROGRESSIVE AUTOMATION  
 6454 5933 ESTABLISHING ELECTRONIC DATA PROCESSING AT THE TRYGG-GYLIGIA  
 INSURANCE COMPANIES  
 6455 6159 AUTOMATION, THE THREE-LEGGED STOOL  
 6456 6507 AN ETHOS FOR THE AGE OF CYBERCULTURE  
 6456 6508 MODELLING IN SOCIOLOGICAL RESEARCH  
 6456 6509 THE SIGNIFICANCE OF CYBERNETICS FOR SCIENCE, TECHNOLOGY,  
 AND INDUSTRY IN THE GERMAN DEMOCRATIC REPUBLIC  
 6456 6557 REAL-TIME COMPUTER STUDIES OF BARGAINING BEHAVIOR, THE  
 EFFECTS OF THREAT UPON BARGAINING  
 6562 7125 ADJUSTING TO TECHNOLOGICAL CHANGE  
 6562 7126 THEORY OF GAMES AS A TOOL FOR THE MORAL PHILOSOPHER  
 6562 7127 THE NEGRO CHALLENGE TO THE BUSINESS COMMUNITY  
 6562 7234 THE IMPACT OF INFORMATION RETRIEVAL ON LAW LIBRARIES  
 6563 7483 SPECULATIONS ON THE RELATION OF THE COMPUTER TO INDIVIDUAL  
 FREEDOM AND THE RIGHT TO PRIVACY  
 6563 7484 RUMBLES FROM THE RANK AND FILE  
 6563 7485 AUTOMATION, ROAD TO LIFETIME JOBS  
 6563 7486 TRANSITION TO AUTOMATION  
 6564 7786 BEYOND AUTOMATION, MANAGERIAL PROBLEMS OF AN EXPLODING  
 TECHNOLOGY  
 6564 7787 AUTOMATION, THE ECONOMIC PERSPECTIVE  
 6564 7821 MOSCOW IN MAY 1963, EDUCATION AND CYBERNETICS  
 6564 7860 CPM IN CONSTRUCTION MANAGEMENT  
 6565 8057 PRINCIPLES OF AUTOMATION  
 6565 8084 THE AUTOMATION HYSTERIA  
 6565 8087 LIVING WITH A COMPUTER  
 6565 8091 PATENT PROTECTION FOR COMPUTER PROGRAMS  
 6565 8112 DISCUSSION, COMPUTER TECHNIQUES FOR LARGE-SCALE SOCIAL  
 SYSTEMS  
 6565 8167 ELECTRONIC POWER GRAB  
 6566 8441 THE COMPUTER AS SORCERER'S APPRENTICE

## 2.12 COMPUTING MILIEU

PHILOSOPHICAL + SOCIAL IMPLICATIONS - THE PUBLIC + COMPUTERS

6453 5491 ROBOTS AND ELECTRONIC BRAINS  
 6453 5503 COMPUTERS IN SCIENCE FICTION  
 6454 5899 EDP PROGRAMMING FOR SECURITY ANALYSIS  
 6455 6160 THE IMPACT OF INFORMATION PROCESSING ON MANKIND  
 6455 6393 TOWARD INDUCTIVE INFERENCE AUTOMATA  
 6455 6451 THE 'LUCH.'  
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 6456 6510 KIBERNETIKA  
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 6453 5527 THE JOURNALS OF INORGANIC CHEMISTRY  
 6453 5621 INFORMATION RETRIEVAL AT THE NEW MONSANTO INFORMATION CENTER  
 6453 5626 LINEARLY ORGANIZED CHEMICAL CODE FOR USE IN COMPUTER SYSTEMS (LOCUS).  
 6453 5635 GENERIC SEARCHING BY USE OF ROTATED FORMULA INDEXES  
 6454 5969 THE AUTOMATIC ENCODING OF CHEMICAL STRUCTURES  
 6455 6176 SEQUENCE DETERMINATION IN BIOPOLYMERS  
 6456 6522 ULTRAVIOLET ABSORPTION SPECTRA OF POLYNUCLEOTIDES  
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 6561 6913 TOTAL, A NEW INDEX FOR GENERIC SEARCHING OF CHEMICAL COMPOUNDS  
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- 6456 6526 NEW FACTORS OF FERMAT NUMBERS  
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- 6565 8123 SOME CONJECTURES ABOUT CYCLOTOMIC INTEGERS  
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- 6562 7419 REDUCTION OF METEOROLOGICAL RADIOSONDE DATA  
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 6451 4953 INVARIANT IMBEDDING AND RADIATIVE TRANSFER IN SLABS OF FINITE THICKNESS
- 6452 5204 A PROGRAM FOR CALCULATING STRUCTURE FACTORS WITH THE AID OF COMPUTING MACHINE URAL-1  
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- 6452 5406 ON THE CAUCHY PROBLEM FOR THE ONE-DIMENSIONAL HEAT EQUATION  
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 6453 5520 ANALYSIS OF DECAY-TYPE DATA  
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- 6453 5524 FEW PARTICLE EXPERIMENTS IN STATISTICAL MECHANICS  
 6453 5525 AN APPROACH TO THE ISING PROBLEM USING A LARGE SCALE FAST DIGITAL COMPUTER
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 6454 5878 COMPUTER USED IN STUDY OF CHROMOSOMES  
 6454 6013 THE PARTICLE-IN-CELL METHOD FOR NUMERICAL SOLUTION OF PROBLEMS IN FLUID DYNAMICS
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- 6456 6763 INTEGRAL EQUATION METHODS FOR TRANSPORT PROBLEMS. SOME NUMERICAL RESULTS  
 6561 6850 METHODS OF CELESTIAL MECHANICS  
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- 6561 6860 GAUSSIAN WAVE FUNCTIONS FOR POLYATOMIC MOLECULES, INTEGRAL FORMULAS  
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- 6562 7152 650 SOFOCATO, A CODE TO DETERMINE THERMAL CONSTANTS ON THE IBM-650  
 6562 7153 A DIGITAL COMPUTER CONTROL EXPERIMENT ON A NUCLEAR REACTOR  
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 6562 7342 NUMERICAL SOLUTION OF A SINGULAR INTEGRAL EQUATION
- APPLICATIONS = NATURAL SCIENCES
- 6563 7500 NUMERICAL METHODS OF REACTOR ANALYSIS  
 6563 7501 METHODS IN COMPUTATIONAL PHYSICS, VOL 3, ADVANCES IN RESEARCH AND APPLICATIONS
- 6563 7502 TWO-DIMENSIONAL LAGRANGIAN HYDRODYNAMIC DIFFERENCE EQUATIONS  
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 6563 7505 CEL, A TIME-DEPENDENT, TWO-SPACE-DIMENSIONAL, COUPLED EULERIAN-LAGRANGE CODE
- 6563 7506 THE TENSOR CODE  
 6563 7507 CALCULATION OF ELASTIC-PLASTIC FLOW  
 6563 7508 SOLUTION BY CHARACTERISTICS OF THE EQUATIONS OF ONE-DIMENSIONAL UNSTEADY FLOW
- 6563 7509 THE SOLUTION OF TWO-DIMENSIONAL HYDRODYNAMIC EQUATIONS BY THE METHOD OF CHARACTERISTICS  
 6563 7510 THE PARTICLE-IN-CELL COMPUTING METHOD FOR FLUID DYNAMICS  
 6563 7511 THE TIME DEPENDENT FLOW OF AN INCOMPRESSIBLE VISCOUS FLUID  
 6563 7512 REPORT OF CONFERENCE ON UTILIZATION OF MULTIPARAMETER ANALYZERS IN NUCLEAR PHYSICS
- 6563 7513 INFORMATION PROCESSING EQUIPMENT FOR PHYSICS RESEARCH AT CHALK RIVER  
 6563 7514 DIGITAL COMPUTERS IN NUCLEAR REACTOR DESIGN  
 6563 7515 MAGNETIC TAPE SYSTEMS AT HARWELL  
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- 6563 7764 AUTOMATIC SCALE CHANGE FOR SIMULATION OF THE KINETICS OF NUCLEAR REACTORS ON ANALOG COMPUTERS  
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 6564 7968 NUMERICAL SOLUTION OF A STABILITY PROBLEM IN HYDRODYNAMICS  
 6564 8052 THE HEAT AND MASS FLOW ANALYZER  
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- 6566 8452 APPLICATION OF INTEGRAL EQUATIONS TO THE FLEXURAL VIBRATION OF A WEDGE WITH ROTARY INERTIA AND SHEAR  
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 6454 5883 USE OF A COMPUTER TO EVALUATE ALTERNATIVE INSECTICIDAL PROGRAMS
- 6454 5884 THE SYMPOSIUM LENS, AN EPILOGUE  
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 6455 6251 COMPUTER-ORIENTED PEACE RESEARCH  
 6562 7155 COMPUTERS AND THE EVALUATION OF RESOURCE MANAGEMENT STRATEGIES
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- 6454 5886 ELECTRIC MACHINERY DESIGN BY DIGITAL COMPUTERS, AFTER NINE YEARS  
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- 6455 6243 COMPUTERS AID CITY ENGINEERS  
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- 6455 6437 APPLICATION OF A FINITE SET COVERING THEOREM TO THE SIMPLIFICATION OF BOOLEAN FUNCTION EXPRESSIONS  
 6455 6476 A DYNAMIC SIMULATION LABORATORY AS A TEACHING AID  
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- 6456 6529 CONTROL TECHNOLOGY AND THE BRAIN  
 6456 6530 COMPUTERS NOW PRODUCE ENGINEERING DESIGNS  
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 6456 6612 BIBLIOGRAPHY OF USE STUDIES  
 6456 6820 CORRECTED INPUTS, A METHOD FOR IMPROVED HYBRID SIMULATION
- 6561 6861 FLOWGRAPHS, FOR THE MODELING AND ANALYSIS OF LINEAR SYSTEMS  
 6561 6862 PRACTICAL METHOD FOR DETERMINING THE LINK OPERATOR OF A CLASS OF RANDOM PROCESSES
- 6561 6863 DISCONTINUOUS SYSTEM VARIABLES IN THE OPTIMUM CONTROL OF SECOND ORDER OSCILLATORY SYSTEMS WITH ZEROS  
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 6563 7518 RELIABILITY ENGINEERING  
 6563 7519 A MATHEMATICAL MODEL FOR MECHANICAL PART DESCRIPTION  
 6563 7520 A SYSTEM ENGINEERING BIBLIOGRAPHY  
 6563 7521 UNISIM, A SIMULATION PROGRAM FOR COMMUNICATIONS NETWORKS  
 6563 7667 MATRIX FUNCTIONS AND APPLICATIONS, PT. I, MATRIX OPERATIONS AND GENERALIZED INVERSES
- 6563 7668 MATRIX FUNCTIONS AND APPLICATIONS, PT. II, FUNCTIONS OF A MATRIX  
 6563 7669 MATRIX FUNCTIONS AND APPLICATIONS, PT. III, APPLICATIONS OF MATRICES TO SYSTEMS ANALYSIS  
 6563 7671 MATRIX FUNCTIONS AND APPLICATIONS, PT. V, SIMILARITY REDUCTIONS BY RATIONAL OR ORTHOGONAL MATRICES
- 6564 7775 ANALOG AND DIGITAL COMPUTER METHODS IN ENGINEERING ANALYSIS  
 6564 7877 SPECIALIZED INFORMATION CENTERS  
 6564 8033 COMPUTING TECHNOLOGY
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 6565 8127 ADVANCES IN CONTROL SYSTEMS, THEORY AND APPLICATIONS, VOL. 1  
 6565 8308 DIGITAL TIME-DOMAIN ANALYSIS OF SYSTEMS WITH WIDELY SEPARATE POLES  
 6566 8454 RANDOM PROCESSES IN NONLINEAR CONTROL SYSTEMS  
 6566 8455 SMALL ENGINEERING COMPUTERS  
 6566 8581 SURVEY OF RESIDUE CODING FOR ARITHMETIC ERRORS  
 6566 8687 MULTIVARIATE STATISTICAL ANALYSIS FOR BIOLOGISTS  
 6566 8689 MATHEMATICAL THEORY OF RELIABILITY

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 6452 5193 SCIENTIFIC INSTRUMENTS IN SPACE EXPLORATION  
 6452 5201 SPACE AND THE WEATHER  
 6452 5202 KEEPING A WEATHER EYE  
 6452 5203 TIROS METEOROLOGICAL OPERATIONS  
 6452 5208 REMOTE CONTROL OF SPACE VEHICLES  
 6453 5529 ASTRONAUTICAL ENGINEERING AND SCIENCE, FROM PEENEMUNDE TO PLANETARY SPACE  
 6453 5530 COMMAND CLOCK SUBSYSTEM FOR THE NIMBUS SATELLITE  
 6453 5531 SIMULATOR CHECKS AUTOPILOT  
 6453 5532 COMMAND AND TELEMETRY SYSTEMS  
 6453 5533 DIGITAL EQUIPMENT FOR THE ANTENNA POINTING SYSTEM  
 6453 5534 ORBIT DETERMINATION AND PREDICTION, AND COMPUTER PROGRAMS  
 6454 5887 LOGIC ORGANIZATION OF THE UNIVAC ADD-1000 AEROSPACE COMPUTER  
 6454 5888 A COMPUTING PROGRAM FOR DETERMINING CERTAIN STATISTICAL PARAMETERS ASSOCIATED WITH POSITION AND VELOCITY ERRORS FOR ORBITING AND RE-ENTERING SPACE VEHICLES  
 6454 5991 ORBITAL DYNAMICS OF SPACE VEHICLES  
 6454 6008 FORTRAN SUBROUTINES FOR TIME SERIES DATA REDUCTION  
 6455 6187 AN ITERATIVE ANALOG DETERMINATION OF BURNING TIME AND WEIGHT DISTRIBUTION IN A TWO-STAGE ROCKET  
 6456 6539 EQUIVALENCE AND OPTIMAL STRATEGIES FOR SOME MINIMUM FUEL DISCRETE SYSTEMS  
 6456 6540 BIOTECHNOLOGY, CONCEPTS AND APPLICATIONS  
 6456 6736 A GENERAL METHOD FOR NUMERICAL INTEGRATION THROUGH A SADDLE-POINT SINGULARITY WITH APPLICATION TO ONE-DIMENSIONAL NONEQUILIBRIUM NOZZLE FLOW  
 6456 6745 NEW DIFFERENCE EQUATION TECHNIQUE FOR SOLVING NONLINEAR DIFFERENTIAL EQUATIONS  
 6561 6932 A CRITICAL LOOK AT VEHICLE CONTROL TECHNIQUES  
 6562 7158 A COMPUTER FOR DEEP SPACE  
 6562 7159 SIMULATION, FUNDAMENTALS AND APPLICATION TO DESIGN AND DEVELOPMENT OF STRUCTURAL AIRCRAFT, BIBLIOGRAPHY 1934-1963  
 6562 7256 ANALOGUE AND DIGITAL COMPUTER METHODS  
 6562 7287 OPTIMIZATION TECHNIQUES WITH APPLICATIONS TO AEROSPACE SYSTEMS  
 6562 7467 PROGRESS OF HYBRID COMPUTATION AT UNITED AIRCRAFT RESEARCH LABORATORIES  
 6563 7496 THE 4102-S SPACE TRACK PROGRAM  
 6563 7674 COMPUTING METHODS IN OPTIMIZATION PROBLEMS  
 6565 8128 STIMULATION OF SPACE VEHICLE WITH REACTION JET CONTROL SYSTEM  
 6565 8214 ON LINE COMPUTER CONTROL TECHNIQUES AND THEIR APPLICATION TO RE-ENTRY AEROSPACE VEHICLE CONTROL  
 6566 8456 INTRODUCTION TO SPACE COMMUNICATION SYSTEMS  
 6566 8457 AN INTRODUCTION TO THE LUNAR BASE PROBLEM

### 3.22 APPLICATIONS ENGINEERING = CHEMICAL

6452 5209 AUTOMATIC TRANSLATION OF NAMES OF ORGANIC CHEMICAL COMPOUNDS INTO FORMULAE  
 6452 5210 ON OPTIMAL RESOURCE ALLOCATION IN MULTISTAGE FEEDBACK PROCESSES  
 6453 5519 APPLICATION OF THE IBM EDP METHODS TO THE CALCULATION OF THE FORMATION CONSTANTS OF COMPLEX IONS  
 6453 5527 THE JOURNALS OF INORGANIC CHEMISTRY  
 6453 5535 GAS REFORMING PLANT, A COMPUTATIONAL INVESTIGATION  
 6453 5536 DIGITAL COMPUTATION FOR CHEMICAL ENGINEERS  
 6453 5537 OPTIMUM DESIGN AND OPERATION OF CHEMICAL PROCESSES  
 6453 5538 COMPUTERS FOR PLANNING IN THE CHEMICAL INDUSTRY  
 6453 5539 USE OF ELECTRONIC COMPUTERS IN CHEMICAL ENGINEERING  
 6453 5621 INFORMATION RETRIEVAL AT THE NEW MONSANTO INFORMATION CENTER  
 6453 5635 GENERIC SEARCHING BY USE OF ROTATED FORMULA INDEXES  
 6454 5889 CONTROL OF A DISTILLATION COLUMN FOR PRODUCING HIGH-PURITY OVERHEADS AND BOTTOMS STREAMS  
 6454 5890 STABILITY OF ADIABATIC PACKED-BED REACTORS, EFFECT OF AXIAL MIXING  
 6454 6034 PROCESS OPTIMIZATION BY SEARCH TECHNIQUES  
 6454 6083 OPTIMAL DISTILLATE-RATE POLICY IN BATCH DISTILLATION  
 6455 6292 SPECIAL PURPOSE ANALOG COMPUTERS FOR MEASUREMENTS OF POWER AND EFFICIENCY FACTORS IN CHEMICAL PLANTS  
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 6456 6625 RAPID STRUCTURE SEARCHES VIA PERMUTED CHEMICAL LINE=NOTATIONS  
 6561 6862 PRACTICAL METHOD FOR DETERMINING THE LINK OPERATOR OF A CLASS OF RANDOM PROCESSES  
 6561 6913 ROTADLEX, A NEW INDEX FOR GENERIC SEARCHING OF CHEMICAL COMPOUNDS  
 6564 7810 PHILLIPS TRIES ODA COMPUTER  
 6564 7811 CHEMSEARCH, AN OPERATING COMPUTER SYSTEM FOR RETRIEVING CHEMICALS SELECTED FOR EQUAL, ANALOGOUS, OR RELATED CHARACTER  
 6564 7812 A GRAPH-THEORETIC ALGORITHM FOR MATCHING CHEMICAL STRUCTURES  
 6564 7813 A CHEMICAL STRUCTURE STORAGE AND SEARCH SYSTEM DEVELOPED AT DUPONT  
 6564 7878 RAPID STRUCTURE SEARCHES VIA PERMUTED CHEMICAL LINE NOTATIONS, II. A KEY-PUNCH PROCEDURE FOR THE GENERATION OF AN INDEX FOR A SMALL FILE  
 6564 8025 THE DISCRETE MAXIMUM PRINCIPLE  
 6566 8458 ANALYSIS OF LARGE COMPLEX FRAMES ON A SMALL COMPUTER  
 6566 8459 AN ADAPTIVE CONTROL OF THE BATCH REACTOR = I. IDENTIFICATION OF KINETICS

### 3.23 APPLICATIONS ENGINEERING = CIVIL

6451 4956 SOME ENGINEERING APPLICATIONS OF THE DIGITAL COMPUTER CSIRAC  
 6453 5540 A SERIAL TECHNIQUE TO DETERMINE MINIMUM PATHS

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6453 5541 APPLICATION OF HYBRID ANALOG AND DIGITAL TECHNIQUES IN THE AUTOMATIC MAP COMPILATION SYSTEM  
 6455 6188 THE APPLICATION OF DIGITAL COMPUTERS TO STRUCTURAL ENGINEERING PROBLEMS  
 6456 6532 SOLUTION OF SYSTEMS OF SIMULTANEOUS LINEAR EQUATIONS IN THE STUDY OF STRESS ANALYSIS  
 6456 6533 STRESS, A USER'S MANUAL  
 6561 6865 PROBABILITY MODEL OF A SIGNAL CONTROLLED MULTI-LANE INTERSECTION, PTS. 1, 2  
 6561 6866 ANALYSIS OF ELASTIC STRUCTURES ON DIGITAL COMPUTERS  
 6561 6867 SIMULATING THE BEHAVIOR OF A MULTI-UNIT, MULTI-PURPOSE WATER-RESOURCE SYSTEM  
 6561 6873 NOTES ON THE SYNTHESIS OF FORM  
 6562 7160 SEATTLE VIADUCT REDESIGNED USING C.P.M.  
 6563 7522 COMPUTER-AIDED TEACHING  
 6564 7814 COGO-90, ENGINEERING USER'S MANUAL  
 6564 7912 COGO-90 TIME-SHARING VERSION  
 6564 8049 ANALYSIS AND SIMULATION OF A CHEMICAL FEEDER SYSTEM  
 6564 8050 ANALOG SIMULATION OF ZONE MELTING  
 6565 8129 STRESS, A REFERENCE MANUAL  
 6565 8130 COMPUTING STRESS DISTRIBUTION IN TURBINE DISKS  
 6565 8384 ELECTRICAL ANALOGUES OF PIN-JOINTED SYSTEMS  
 6565 8385 STATIC SOLUTION OF A TWISTED THIN-WALLED ROD UNDER LOAD USING AN ELECTRICAL ANALOGUE  
 6565 8386 ELECTRICAL ANALOGUES OF SOME PLANE ROD SYSTEMS  
 6565 8387 BI-MOMENTS FORMULA IN INITIAL PARAMETERS  
 6565 8392 COMPARISON OF THE METHODS OF BUILDING DYNAMICS AND THOSE USED IN THE EVALUATION OF ELECTRICAL CIRCUITS  
 6565 8393 THE CALCULATION OF THE DEFLECTION OF PILLARS' FOUNDATIONS WITH THE HELP OF ELECTRICAL ANALOGUES OF FRAMEWORKS  
 6565 8394 AN ELECTRICAL CIRCUIT FOR SIMULATING A COMPLICATEDLY BENT CONICAL BEAM  
 6565 8395 CALCULATION OF THE EFFECTS OF TEMPERATURE ON BEAMS AND PLANE FRAMEWORKS USING ELECTRICAL ANALOGUE CIRCUITS  
 6565 8396 ELECTRICAL ANALOGUE OF PLANE, STATICALLY DETERMINED FRAMEWORK  
 6565 8397 THE USE OF ITERATION IN ANALOGUES OF FRAMEWORKS USING A FOUR TERMINAL ACTIVE NETWORK  
 6565 8398 ELECTRICAL ANALOGUE EMSS-1 FOR THE DESIGN OF BEAMS AND FRAMEWORKS

### 3.24 APPLICATIONS ENGINEERING = ELECTRICAL, ELECTRONIC

6451 4957 DESIGN AND APPLICATIONS OF A TRANSISTORIZED ANALOG MODEL FOR SINGLE-STAGE, MULTI-STORAGE IMPULSE GENERATORS WITH DISTRIBUTED IMPEDANCES  
 6451 4958 DIRECT METHOD OF CIRCUIT ANALYSIS ON DIGITAL COMPUTERS  
 6451 5157 DIRECTIONAL COUPLING AND ITS USE FOR MEMORY NOISE REDUCTION  
 6451 5162 ANALOG COMPUTER TECHNIQUES  
 6452 5211 BOUNDS ON COMMUNICATION  
 6452 5212 METHODS OF LOAD CALCULATION FOR ECONOMICAL LOAD DISTRIBUTION  
 6452 5213 CALCULATION OF SINGLE FAULTS BY MEANS OF COMPUTERS  
 6452 5214 RADIO-TELEVISION-ELECTRONICS DICTIONARY  
 6452 5309 AN AUTOMATIC READER BASED ON ANALYSIS OF DIRECTIONS  
 6452 5310 APPLICATION OF A TELEVISION SET IN CHARACTER READING  
 6452 5370 CONTRIBUTIONS TO THE THEORY OF TIME-OPTIMAL CONTROL  
 6452 5446 A NEW MODEL FOR ERROR CLUSTERING IN TELEPHONE CIRCUITS  
 6452 5453 ANALYSIS OF NONLINEAR DISTORTION IN MULTICHANNEL EQUIPMENT IN THE CASE OF WHITE-NOISE LEADING  
 6453 5482 BASIC PULSE CIRCUITS  
 6453 5530 COMMAND CLOCK SUBSYSTEM FOR THE NIMBUS SATELLITE  
 6453 5531 SIMULATOR CHECKS AUTOPILOT  
 6453 5532 COMMAND AND TELEMETRY SYSTEMS  
 6453 5542 QUADRATURE TRIANGULAR-WAVE OSCILLATOR  
 6453 5543 MAN AND MACHINE IN THE EXTRACTION AND USE OF RADAR INFORMATION  
 6453 5544 AUTOMATIC RADAR DATA EXTRACTION BY STORAGE TUBE AND DELAY LINE TECHNIQUES  
 6453 5545 DYNAMIC STATISTICAL LINEARIZATION  
 6453 5546 AUTOMATIC TROUBLE DIAGNOSIS OF COMPLEX LOGIC CIRCUITS  
 6453 5547 THE THEORY OF DESIGN OF RELAY NETWORKS  
 6453 5560 AN ANALOGUE COMPUTER AUTOMATICALLY REGULATING ECONOMICAL LOAD DISTRIBUTION BETWEEN POWER-STATIONS  
 6453 5706 NONLINEAR AUTOMATIC CONTROL  
 6453 5807 ENGINEERING CHARACTERISTICS OF CYLINDRICAL THIN-FILM PARAMETRON FOR USE IN DIGITAL SYSTEMS  
 6453 5833 EXAMINING THE TRANSIENT PHENOMENA OF AN ASYNCHRONOUS MOTOR WITH AN ANALOGUE COMPUTER  
 6453 5834 PROGRAMMING AN ANALOGUE COMPUTER FOR INVESTIGATING THE TRANSIENT PHENOMENA OF ASYNCHRONOUS MOTORS TAKING SATURATION INTO ACCOUNT  
 6454 5891 TRANSMISSION-LINE RESPONSE USING FREQUENCY TECHNIQUES  
 6454 5892 ELECTRICAL CIRCUITS A LA MANIAC  
 6454 5893 DIGITAL COMPUTERS IN COMMUNICATION DESIGN  
 6454 5894 COMPUTER PROGRAMS FOR CIRCUIT DESIGN  
 6454 5895 LINEAR PROGRAMMING IN THE STUDY OF THE RURAL ELECTRICAL NETWORK  
 6455 6189 SIGNAL FLOW GRAPHS AND APPLICATIONS  
 6455 6276 PROBLEMS IN THE CONSTRUCTION OF DESCRIPTOR INFORMATION SEARCH SYSTEMS  
 6455 6422 ESTIMATION OF POWER SPECTRAL DENSITY BY FILTERS  
 6456 6488 INTRODUCTION TO AUTOMATIC CONTROL SYSTEMS  
 6456 6524 NEW POSSIBILITIES OF RESEARCH ON HUMAN INFORMATION PROCESSING  
 6456 6534 AUTOMATIC START-UP OF POWER STATIONS  
 6456 6535 AN ANALOG-DIGITAL CONVERTER FOR SPEECH SIGNAL INPUT TO A COMPUTER  
 6456 6536 USING THE COMPUTER FOR INTEGRATED CIRCUIT ANALYSIS  
 6456 6537 SOVIET POWER SYSTEM USES DIGITAL COMPUTER  
 6456 6646 APPROXIMATE ANALYSIS OF A CLASS OF LINEAR AUTOMATIC CONTROL PROCESSES  
 6456 6745 NEW DIFFERENCE EQUATION TECHNIQUE FOR SOLVING NONLINEAR DIFFERENTIAL EQUATIONS  
 6456 6775 THE FOUNDATIONS OF PROGRAMMING AND THE SOLUTION ON ELECTRONIC DIGITAL COMPUTERS OF PROBLEMS OF PROPULSION AND DYNAMICS OF AN ELECTRO-MOBILE COMPOSITION  
 6456 6816 CATHODE-RAY PRINTER TUBE  
 6561 6852 A RAPID METHOD FOR DIGITAL FILTERING  
 6561 7098 COMPUTER ANALYSIS OF DC MOTOR CONTROL  
 6562 7161 COMPUTER VERIFICATION OF DEVICE SYSTEMS  
 6562 7208 INVESTIGATIONS OF BINARY PREDICTORS, INCLUDING THEIR ABILITY OF ADAPTATION AND PREDICTION AS COMPARED WITH EXPERIMENTAL SUBJECTS  
 6562 7209 THE PROPERTIES AND THE STRUCTURE OF LEARNING MATRICES FOR NON-BINARY SIGNALS  
 6562 7322 NONLINEAR ANALYSIS

APPLICATIONS = ENGINEERING



6564 7815 DISCRETE-TIME SYSTEMS, AN INTRODUCTION TO THE THEORY  
 6564 7816 AN OPTIMAL CONTROL PROBLEM WITH STATE VECTOR MEASUREMENT ERRORS  
 6564 7817 ON THE PROBABILITY OF RECEIVING TELEMETRY MESSAGES WHEN THE APPARATUS AT THE CENTRAL POINT CAN FAIL AND BE REPAIRED  
 6564 7869 BETTER VOCODERS ARE COMING  
 6564 8042 TRANSISTOR ELECTRONICS IN INSTRUMENT TECHNOLOGY  
 6565 8078 TEACHING MATHEMATICS WITH ANALOG COMPUTERS  
 6565 8131 THE APPLICATION OF METHODS IN CYBERNETICS TO ELECTRICAL ENGINEERING  
 6565 8177 LEARNING MACHINES  
 6565 8219 PERFORMANCE OF SYSTEMS USED FOR DATA TRANSMISSION TRANSFER RATE OF INFORMATION BITS, AN ASA TUTORIAL  
 6565 8222 THEORY OF SAMPLED-DATA CONTROL SYSTEMS  
 6566 8710 COMPUTER-AIDED DIGITAL SYSTEM DESIGN AND ANALYSIS USING A REGISTER TRANSFER LANGUAGE  
 6566 8750 A SYSTEMATIC APPROACH TO PROGRAMMING AN ANALOG COMPUTER TO GENERATE A LARGE CLASS OF TRAJECTORIES

### 3.25 APPLICATIONS ENGINEERING = ENGINEERING SCIENCE

6451 4959 NUMERICAL TECHNIQUES FOR THE STUDY OF TIME-VARYING SYSTEMS  
 6451 4960 'RELIABILITY' ENGINEERING  
 6454 6094 INFORMATION THEORY AND CODING  
 6456 6538 A MATHEMATICAL MODELING METHOD FOR SPEECH SIGNAL TRANSMISSION SYSTEMS  
 6456 6539 EQUIVALENCE AND OPTIMAL STRATEGIES FOR SOME MINIMUM FUEL DISCRETE SYSTEMS  
 6456 6794 SIMULATION AS EXPERIMENTAL MATHEMATICS  
 6561 6868 SENSITIVITY ANALYSIS OF DYNAMIC SYSTEMS  
 6561 6910 BALANCING ASSEMBLY LINES USING THE GENERAL PROBLEM SOLVER  
 6564 7815 DISCRETE-TIME SYSTEMS, AN INTRODUCTION TO THE THEORY  
 6564 7818 A METHOD OF VISCOELASTIC STRESS ANALYSIS USING ELASTIC SOLUTIONS  
 6564 7819 TORSIONAL INSTABILITY FROM FRICTIONAL OSCILLATIONS  
 6566 8458 ANALYSIS OF LARGE COMPLEX FRAMES ON A SMALL COMPUTER  
 6566 8460 PLOTTING THE EQUIPOTENTIAL LINES OF A POTENTIAL FIELD  
 6566 8741 ASYMPTOTIC PROPERTIES OF SYSTEMS SYNTHESIZED FOR MAXIMUM RELIABILITY

### 3.26 APPLICATIONS ENGINEERING = MECHANICAL

6451 4961 CALCULATION OF BLOWERS WITH AN IBM COMPUTER  
 6451 5014 OPTICAL ELECTRONIC POSITIONING SYSTEM  
 6452 5215 THE SIMULATION OF BEARING WHIRL ON AN ELECTRONIC=ANALOG COMPUTER  
 6453 5548 HOW TO ANALYZE SHOCK EFFECTS  
 6453 5549 DEVELOPMENT OF THE THEORY OF STRENGTH CALCULATIONS ON JOINTS WITH LATERAL WELDS  
 6453 5692 A DESCRIPTION OF THE APT LANGUAGE  
 6454 5896 COMPUTER-MADE PERSPECTIVE MOVIES AS A SCIENTIFIC AND COMMUNICATION TOOL  
 6454 5980 METHODS OF CORRECTING DYNAMIC ERRORS IN PROGRAM CONTROLLED MACHINE TOOLS  
 6455 6190 SIMULATING MANUFACTURING PROCESSES ON ELECTRONIC DIGITAL COMPUTERS  
 6562 7151 AXIALLY SYMMETRIC STEADY MOTION OF A VISCOUS INCOMPRESSIBLE FLUID, SOME NUMERICAL EXPERIMENTS  
 6562 7162 ALGORITHM FOR A GEAR-TRAIN PROBLEM  
 6562 7322 NONLINEAR ANALYSIS  
 6562 7384 A DYNAMIC PROGRAMMING STRATEGY FOR THE TWO MACHINE PROBLEM  
 6565 8130 COMPUTING STRESS DISTRIBUTION IN TURBINE DISKS  
 6565 8132 THE MATRIX ANALYSIS OF VIBRATION  
 6565 8230 THE CONCLUSIONS OF THE CONFERENCE ON THE METHODS OF PREPARING INFORMATION FOR MACHINES WITH PROGRAMMED CONTROL  
 6565 8231 DYNAMIC ERRORS AND THEIR CORRECTIONS, DURING THE PROGRAMMED CONTROL OF MACHINES  
 6565 8232 THE AUTOMATION OF PROGRAMMING FOR POSITIONAL SYSTEMS OF PROGRAMMED CONTROL OF MACHINES  
 6565 8233 THE PREPARATION OF PROGRAMS FOR MACHINING WITH PROGRAMMED CONTROL ON ELECTRONIC COMPUTERS  
 6565 8234 A METHOD OF SURFACE PROGRAMMING FOR MACHINE TOOLING  
 6565 8235 AN AUTOMATIC PROGRAMMING SYSTEM FOR MACHINING  
 6566 8452 APPLICATION OF INTEGRAL EQUATIONS TO THE FLEXURAL VIBRATION OF A WEDGE WITH ROTARY INERTIA AND SHEAR

### 3.29 APPLICATIONS ENGINEERING = MISCELLANEOUS

6451 4962 SIMULATION OF A TRAFFIC NETWORK  
 6452 5212 METHODS OF LOAD CALCULATION FOR ECONOMICAL LOAD DISTRIBUTION  
 6452 5216 INVESTIGATING TEMPERATURE FIELDS IN A STEAM-TURBINE ROTOR USING ELECTRONIC COMPUTERS  
 6452 5217 COMPUTER CALCULATIONS ON THE INITIATION OF HIGH-EXPLOSIVE DETONATION  
 6452 5321 INFORMATION RETRIEVAL IN ACTION  
 6453 5550 CALCULATING THE TEMPERATURES OF HEAT BRIDGES BY AN ELECTRONIC COMPUTER  
 6453 5830 ANALOG SIMULATION  
 6454 5897 COMPUTER IN A SHOEBOX  
 6455 6191 FORTRAN METHODS IN HEAT FLOW  
 6455 6470 A SURVEY OF SEVERAL ASPECTS OF DATA COMMUNICATION  
 6456 6540 BIOTECHNOLOGY, CONCEPTS AND APPLICATIONS  
 6456 6541 HYDRAULIC TRANSIENTS  
 6561 6869 USING AN ELECTRONIC DIGITAL COMPUTER FOR CALCULATING THE IRREGULAR MOTION OF WATER IN A PRISMATIC CHANNEL  
 6563 7517 A SYSTEM OF OPTICAL DESIGN  
 6563 7603 OPTIMAL ESTIMATION, IDENTIFICATION, AND CONTROL  
 6563 7731 FINITE AUTOMATA  
 6564 7819 TORSIONAL INSTABILITY FROM FRICTIONAL OSCILLATIONS  
 6564 7820 BOUNDARY NETWORKS  
 6564 7852 RELIEF FOR THE HARRIED JOB ESTIMATOR  
 6564 8041 OPTOELECTRONIC DEVICES AND CIRCUITS  
 6564 8052 THE HEAT AND MASS FLOW ANALYZER  
 6565 8328 CALCULUS REFRESHER FOR TECHNICAL MEN

### 3.30 APPLICATIONS SOCIAL AND BEHAVIORAL SCIENCES = GENERAL

6452 5218 TECHNICAL INTERPRETATION OF BIOLOGICAL AND SOCIAL PHENOMENA IN THE FIELD OF CYBERNETICS OUTSIDE THE SOVIET UNION  
 6453 5489 APPLICATIONS OF DIGITAL COMPUTERS  
 6454 5898 APPLICATIONS OF GRAPH THEORY TO GROUP STRUCTURE  
 6455 6148 THE SCIENCE WITH THE GREATEST POSSIBILITIES  
 6455 6192 TABLES FOR NORMAL SAMPLING WITH UNKNOWN VARIANCE  
 6455 6193 TEACHING MACHINES AND PROGRAMMED LEARNING IN THE SOVIET BLOC (A SURVEY OF THE PUBLISHED LITERATURE, 1962-1963)  
 6455 6270 A COMPLEX STUDY OF MAN AS THE NEXT PROBLEM OF CONTEMPORARY SCIENCE  
 6456 6542 MULTISTATE INVENTORY MODELS AND TECHNIQUES  
 6561 6889 THE AUTOMATION OF SCHOOL INFORMATION SYSTEMS  
 6563 7638 A LIGHTPEN-CONTROLLED PROGRAM FOR ONLINE DATA ANALYSIS  
 6564 7824 USING THE COMPUTER FOR SIMPLE MANIPULATIONS OF DATA AND INFORMATION, A SUGGESTED PROGRAM  
 6564 7877 SPECIALIZED INFORMATION CENTERS  
 6565 8066 EXTRAPOLATIONS  
 6565 8133 PROC. CONF. COMPUTER METHODS IN THE ANALYSIS OF LARGE-SCALE SOCIAL SYSTEMS, CAMBRIDGE, MASS., OCT. 1964  
 6565 8134 SEMI-AUTOMATIC TABULATIONS OF POPULATION DATA FILES SUCH AS THE 1960 CENSUS 1=1000 SAMPLE  
 6565 8135 A GENERAL COMPUTER LANGUAGE FOR THE SOCIAL SCIENCES  
 6565 8136 DISCUSSION, SOCIAL SCIENCE COMMUNICATION WITH COMPUTERS  
 6565 8137 NEW METHODS FOR DISSEMINATING CENSUS RESULTS, DATA NEEDS FOR COMPUTER SIMULATION OF LARGE-SCALE SOCIAL SYSTEMS, DISCUSSION, DATA PRODUCTION AND DISSEMINATION  
 6565 8138 COHORT ANALYSIS OF ATTITUDE DATA  
 6565 8345 QUADRATIC PROGRAMMING  
 6566 8421 STRUCTURAL MODELS, AN INTRODUCTION TO THE THEORY OF DIRECTED GRAPHS  
 6566 8461 SURVEY SAMPLING

### 3.31 APPLICATIONS SOCIAL AND BEHAVIORAL SCIENCES = ECONOMICS

6452 5219 APPLICATION OF MATHEMATICS TO ECONOMICS RESEARCH, VOL. 2  
 6452 5290 DETERMINING THE CHARACTERISTICS OF A TRANSPORT NETWORK BY A METHOD DERIVED FROM THE ANALYSIS OF VARIANCE  
 6452 5437 A MATHEMATICAL METHOD OF PLANNING ENERGY REQUIREMENTS IN ECONOMY  
 6453 5551 THE STATISTICAL METHOD IN BUSINESS  
 6453 5552 A BEHAVIORAL THEORY OF THE FIRM  
 6453 5761 THE PROBABILITY APPROACH TO TWO PROBLEMS IN ECONOMICS  
 6453 5762 POLYNOMIAL APPROXIMATION, A NEW COMPUTATIONAL TECHNIQUE IN DYNAMIC PROGRAMMING, ALLOCATION PROCESSES  
 6453 5768 A NOTE ON ESTIMATION OF EQUATION SYSTEMS USING AN ELECTRONIC COMPUTER  
 6453 5771 ELEMENTS OF THE THEORY OF PROBABILITY AND MATHEMATICAL STATISTICS. A TEXTBOOK IN MATHEMATICS FOR ECONOMICS STUDENTS  
 6454 5899 EDP PROGRAMMING FOR SECURITY ANALYSIS  
 6454 5900 SIMULATED ECONOMIC MODELS  
 6455 6248 SIMULATION OF MARKET PROCESSES  
 6455 6416 MATHEMATICAL FOUNDATIONS OF OPTIMAL PLANNING IN AGRICULTURAL PRODUCTION  
 6455 6418 EXTREME PROBLEMS OF THE DISCRETE DETERMINISTIC TYPE IN DYNAMIC PROGRAMMING  
 6456 6507 AN ETHOS FOR THE AGE OF CYBERCULTURE  
 6456 6537 SOVIET POWER SYSTEM USES DIGITAL COMPUTER  
 6456 6543 INPUT OUTPUT ANALYSIS, A PILOT EXAMPLE  
 6456 6544 MATHEMATICS AND PLANNING (SOME PROBLEMS OF APPLYING MATHEMATICAL METHODS OF ECONOMICS AND COMPUTING TECHNIQUES)  
 6456 6787 MATHEMATICAL PROGRAMMING AND THE ANALYSIS OF CAPITAL BUDGETING PROBLEMS  
 6456 6790 A QUANTITATIVE ANALYSIS METHOD FOR SIMPLIFIED ECONOMIC MODELS  
 6561 6870 INSEEING BY THE NONPLEX METHOD IN NONLINEAR PROGRAMMING  
 6561 6871 A SHORT COMPUTER PROGRAM FOR THE ANALYSIS OF TRANSACTION FLOWS  
 6561 7042 MARGINAL VALUES IN LINEAR PROGRAMMING  
 6561 7045 THE SOLUTION OF THE TRANSPORTATION PROBLEM BY THE METHOD OF INDEX DELETION  
 6561 7046 A PROGRAM FOR THE SOLUTION OF THE TRANSPORTATION PROBLEM BY THE METHOD OF INDEX DELETION  
 6562 7128 THE MATHEMATICAL MAGPIE  
 6562 7163 THE USE OF ADMINISTERED PRICE SYSTEMS TO CONTROL LARGE ORGANIZATIONS  
 6562 7164 INTERNAL PRICING AND DECENTRALIZED DECISIONS  
 6562 7165 A COMPUTABLE MODEL OF ECONOMIC GROWTH  
 6562 7198 A SIMPLIFIED MODEL FOR PORTFOLIO ANALYSIS  
 6562 7394 SPECTRAL ANALYSIS OF ECONOMIC TIME SERIES  
 6563 7523 SIMULATION OF ORGANIZATIONAL BEHAVIOR  
 6563 7524 INDUSTRIAL DYNAMICS AND THE DESIGN OF MANAGEMENT CONTROL SYSTEMS  
 6563 7525 THE HARBETS SIMULATION EXERCISE AND MANAGEMENT CONTROL  
 6563 7526 DISCUSSION COMMENTS, SIMULATION AND MANAGEMENT CONTROLS  
 6564 7869 BETTER VOCODERS ARE COMING  
 6565 8084 THE AUTOMATION HYSTERIA  
 6565 8139 ON THE ACCURACY OF ECONOMIC OBSERVATIONS  
 6565 8252 DYNAMO USER'S MANUAL  
 6566 8462 A DYNAMIC MODEL OF THE FIRM  
 6566 8463 PROBLEMS IN INFORMATION ECONOMICS  
 6566 8464 DISCUSSION COMMENTS, ECONOMIC THEORY AND MANAGEMENT CONTROL  
 6566 8476 BANKING AND THE INFORMATION UTILITY  
 6566 8674 DECOMPOSITION = SEVEN LEAGUE BOOTS FOR LINEAR PROGRAMMING

### 3.32 APPLICATIONS SOCIAL AND BEHAVIORAL SCIENCES = EDUCATION, WELFARE

6451 4963 A DECISION STRUCTURE FOR TEACHING MACHINES  
 6451 4964 THE ROLE OF THE COMPUTER IN FUTURE INSTRUCTIONAL SYSTEMS  
 6452 5220 PROGRAMMED LEARNING AND COMPUTER-BASED INSTRUCTION. PT. 1, THEORY AND EXPERIMENTATION IN PROGRAMMED LEARNING, 3=154 PP. PT. 3, COMPUTER TECHNOLOGY IN AUTOMATED TEACHING, 257=288  
 6452 5221 THE CHALLENGE OF AUTOMATION IN EDUCATION  
 6452 5222 CHARACTERISTICS OF SOME RECENT STUDIES OF INSTRUCTIONAL METHODS  
 6452 5223 OPTIMAL ALLOCATION OF ITEMS IN A SIMPLE, TWO=CONCEPT AUTOMATED TEACHING MODEL  
 6452 5224 NEW DIRECTIONS IN TEACHING-MACHINE RESEARCH

6452 5225 INTRINSIC AND EXTRINSIC PROGRAMMING  
 6452 5226 SOME RESEARCH PROBLEMS IN AUTOMATED INSTRUCTION,  
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 6452 5227 EXPERIMENTAL RESULTS REGARDING FORM OF RESPONSE, SIZE OF  
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 6452 5228 TEACHING SCIENCE AND MATHEMATICS BY AUTOINSTRUCTION IN THE  
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 6452 5229 RESEARCH IN PROGRAMMED LEARNING  
 6452 5230 BEHAVIOR THEORY AND THE AUTOMATION OF INSTRUCTION  
 6452 5231 ADAPTIVE TEACHING MACHINES  
 6452 5232 SOME THEORETICAL AND PRACTICAL PROBLEMS IN PROGRAMMED  
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 6452 5233 AUTOMATIC COMPUTERS AND TEACHING MACHINES  
 6452 5234 SYSTEMS CONSIDERATIONS IN REAL-TIME COMPUTER USAGE  
 6452 5235 INTERACTIONS BETWEEN FUTURE COMPUTER DEVELOPMENTS AND  
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 6452 5236 THE COMPUTER AND PROGRAMMED INSTRUCTION  
 6452 5237 SYNTACTIC DEPENDENCE AND THE COMPUTER GENERATION OF  
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 6452 5238 USING THE ACHIEVEMENTS OF CYBERNETICS IN PEDAGOGICAL  
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 6452 5239 USING MATHEMATICAL AND CYBERNETIC METHODS IN PEDAGOGICAL  
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 6452 5479 HYBRID COMPUTER TEACHING AID  
 6453 5494 THE COMPUTER IN EDUCATION; MALEFACTOR OR BENEFACTOR  
 6454 5901 HUMAN QUALITY CONTROL  
 6455 6194 THE CYBERNETICAL APPROACH TO THE THEORY OF EDUCATION  
 6456 6507 AN ETHOS FOR THE AGE OF CYBERCULTURE  
 6563 7479 COMPUTER TUTORING IN STATISTICS  
 6563 7527 THE ROLE OF COMPUTERS IN EDUCATION  
 6563 7542 AN INVENTORY OF FIFTEEN MILLION WORDS  
 6564 7821 MOSCOW IN MAY 1963, EDUCATION AND CYBERNETICS  
 6564 7868 PLATO, A COMPUTER-CONTROLLED TEACHING SYSTEM  
 6565 8140 STRATEGIES FOR USING PROGRAMED INSTRUCTION  
 6565 8141 PROGRAMED LEARNING AND MATHEMATICAL EDUCATION  
 6566 8465 COMPUTER-MEDIATED INSTRUCTION - A SURVEY OF NEW  
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 6566 8466 TOWARDS MORE VERSATILE TEACHING MACHINES  
 6566 8467 PROGRAMMED HEURISTICS AND THE CONCEPT OF PAR IN BUSINESS  
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 3.33 APPLICATIONS  
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 6451 4965 MODERN LOGIC AND JUDICIAL DECISION MAKING, A SKETCH OF  
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 6451 4966 SIMULTANEOUS EQUATIONS AND BOOLEAN ALGEBRA IN THE  
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 6451 4967 CYBERNETICS APPLIED TO LEGAL PROBLEMS  
 6451 4968 SOME JURISPRUDENTIAL IMPLICATIONS OF ELECTRONIC DATA  
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 6451 4969 MACHINE-MADE JUSTICE IMPLICATIONS  
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 6452 5240 JURIMETRICS, THE METHODOLOGY OF LEGAL INQUIRY  
 6452 5241 QUANTITATIVE ANALYSIS OF JUDICIAL PROCESSES, SOME  
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 6452 5242 USING METHODS OF CYBERNETICS IN LAW  
 6452 5320 A PUNCHED CARD RETRIEVAL SYSTEM FOR AUTOMOBILE ACCIDENT  
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 6453 5553 EVIDENCE AND PROBLEMS OF PROOF IN A COMPUTERIZED SOCIETY  
 6453 5554 COMPUTERS AND THE ADMINISTRATION OF JUSTICE  
 6453 5555 ELECTRONIC BRAINS AND THE LEGAL MIND, COMPUTING THE DATA  
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 6453 5619 AN INFORMATION RETRIEVAL LANGUAGE FOR LEGAL STUDIES  
 6455 6195 FUTURE APPLICABILITY OF CYBERNETICS TO JURISPRUDENCE IN  
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 6456 6545 FOUNDATIONS OF LOGICAL LEGAL DECISION MAKING  
 6456 6546 THE USE OF CYBERNETICS IN LAW  
 6456 6547 A QUANTITATIVE RESTATEMENT OF LEGAL RULES  
 6561 6828 JURIMETRICS AND GENERAL SEMANTICS  
 6562 7166 LINGUISTIC STATISTICS OF LEGAL INDEXING  
 6562 7167 DECISION THEORY IN LAW, SCIENCE AND TECHNOLOGY  
 6562 7168 THE USE OF FUNCTIONS OF LEGISLATIVE TERMS IN LEGAL WRITING  
 6562 7169 AN ELECTRONIC FORMS FILE, NEW ASSISTANCE FOR LEGAL DRAFTING  
 6562 7170 DECISION PREDICTION BY COMPUTERS, NONSENSE CUBED, AND WORSE  
 6562 7171 DON'T THROW OUT THE COMPUTERS  
 6562 7173 A PROCEDURE FOR NONPARTISAN DISTRICTING, DEVELOPMENT  
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 6562 7200 AUTOMATION AND THE ADMINISTRATIVE PROCESS  
 6562 7234 THE IMPACT OF INFORMATION RETRIEVAL ON LAW LIBRARIES  
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 6564 7822 MAN AND MACHINE IN THE SEARCH FOR JUSTICE  
 6564 7823 PANEL DISCUSSION, THE COMPUTER IN LAW, YES OR NO  
 6564 7824 USING THE COMPUTER FOR SIMPLE MANIPULATIONS OF DATA AND  
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 6565 8093 COPYRIGHT PROTECTION FOR COMPUTER PROGRAMS  
 6565 8094 ON COMPUTERS AND PROGRAMS, COPYRIGHTS AND PATENTS  
 6565 8142 A SCIENTIFIC METHOD OF DISTRICTING  
 6565 8143 AN APPLICATION OF COMPUTERS TO DOCUMENT ANALYSIS  
 6566 8468 LEGAL PROTECTION OF COMPUTER PROGRAMS

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 6454 5903 AUTOMATION OF TREATMENT PLANNING  
 6454 5904 OPTIMUM RESPONSE ANALYSIS AS A TOOL FOR MEDICAL RESEARCH  
 6454 5905 PLANNING FOR HOSPITALS, A SYSTEMS APPROACH USING  
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 6454 5909 EVOLUTION OF MEDICAL TERMINOLOGY THROUGH COMPUTER  
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 6454 5910 STUDY IN EXPERIMENTAL CANCER CHEMOTHERAPY  
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 6454 5912 DIGITAL COMPUTING OF ELECTROCARDIOGRAPHIC DATA  
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 6454 6125 A PERFUSION LOSS COMPUTER FOR USE IN CANCER TREATMENT  
 6455 6145 THE SPECTRUM OF INFORMATION PROCESSING  
 6455 6171 DATA ACQUISITION AND PROCESSING IN BIOLOGY AND MEDICINE,  
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 6455 6175 CONVERSION OF ANALOGUE DATA TO IBM 7090 DIGITALLY-CODED-  
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 6455 6200 PICTURE GENERATION WITH A STANDARD LINE PRINTER  
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 6563 7618 A COMMAND CONTROL INFORMATION SYSTEM FOR THE FIELD ARMY  
 6564 7855 DEFENSE RESPONDS TO THE CHALLENGE OF ADP SYSTEMS  
 6564 7856 THE AIR FORCE EDPE EQUIPMENT OFFICE  
 6564 7857 AUTOMATION AND FINANCIAL MANAGEMENT IN THE NAVY  
 6565 8173 FUTURE TRENDS IN AIR FORCE DATA SYSTEMS  
 6566 8431 TECHNOLOGICAL CONSIDERATIONS, (DECISION-MAKING)  
 6566 8457 AN INTRODUCTION TO THE LUNAR BASE PROBLEM  
 6566 8492 COSTING METHODS  
 6566 8501 TOPOLOGY AND COMPUTATION OF THE GENERALIZED TRANSPORTATION PROBLEM  
 6566 8541 SIGNAL TRANSMISSION, FACTORS WITHIN THE HUMAN OPERATOR IN COMMUNICATION  
 6566 8542 DISCUSSION, AND OPEN DISCUSSION  
 6566 8682 GAMING METHODS AND APPLICATIONS  
 6566 8683 STRATEGIES FOR DEVELOPMENT  
 6566 8684 MATHEMATICS AND SYSTEMS ANALYSIS  
 6566 8685 PITFALLS IN SYSTEMS ANALYSIS

3.57 APPLICATIONS  
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6451 4993 DATA TRANSMISSION FOR AUTOMATIC COMPUTATION AND CONTROL, PART 1, GENERAL CONSIDERATIONS  
 6451 4994 DATA TRANSMISSION FOR AUTOMATIC COMPUTATION AND CONTROL, PART 2, PRACTICAL CONSIDERATIONS  
 6451 5112 A PROGRAM TO STUDY THE EFFECT OF RANDOM DELAYS ON THE ABILITY OF TRAINS TO RUN TO A SCHEDULE.  
 6452 5285 SAS AIDS FOR THE JET AGE, TELECOMMUNICATION FOR ELECTRONIC RESERVATIONS  
 6452 5286 NEW DIRECTIONS FOR TRAFFIC CONTROL  
 6452 5287 PROBLEMS RELATING TO THE PLANNING OF SOUND AND VISION TRANSMITTER NETWORKS BY THE BROADCASTING COMPANIES  
 6452 5288 METHODS OF SOLVING SOME TRANSPORTATION PROBLEMS ON ELECTRONIC DIGITAL COMPUTERS  
 6452 5289 MAKING UP A TWO-DIRECTIONAL SCHEDULE FOR TRAINS ON A ONE-DIRECTIONAL LINE USING ELECTRONIC DIGITAL COMPUTERS  
 6452 5290 DETERMINING THE CHARACTERISTICS OF A TRANSPORT NETWORK BY A METHOD DERIVED FROM THE ANALYSIS OF VARIANCE  
 6452 5438 CALCULATION OF THE OPTIMAL METHOD OF TRANSPORTING COAL  
 6453 5540 A SERIAL TECHNIQUE TO DETERMINE MINIMUM PATHS  
 6453 5595 ERROR DETECTION CORRECTION AND CONTROL  
 6453 5596 HUMMING BY COMPUTER  
 6453 5597 SEE IT'S ON THE RIGHT LINES  
 6453 5598 DETERMINING FASTEST ROUTES USING FIXED SCHEDULES  
 6454 5936 MESSAGE ROUTE CONTROL IN A LARGE TELETYPE NETWORK  
 6455 6250 CONTROL OF AIRCRAFT LOADING  
 6456 6600 OPERATIONS RESEARCH AND ITS ROLE IN COMMERCIAL AVIATION  
 6456 6792 AN ANALYSIS OF PEDESTRIAN QUEUEING  
 6456 6793 EFFECTS OF A DISTRIBUTION ON GAP ACCEPTANCE FUNCTIONS ON PEDESTRIAN QUEUES  
 6561 6892 THE ZIP CODE AND ADP  
 6561 6895 MAXIMUM PAYLOADS PER UNIT TIME DELIVERED THROUGH AN AIR NETWORK  
 6561 6922 IMPACT OF COMPUTER TECHNOLOGY ON COMMUNICATIONS  
 6561 6927 FUNDAMENTALS OF STORED PROGRAM CONTROL OF TELEPHONE SWITCHING SYSTEMS  
 6561 6928 THE USE OF COMPUTERS IN MESSAGE SWITCHING NETWORKS  
 6561 6930 ESTABLISHING THE TELECOMPUTER CENTER  
 6561 6949 TIME-SHARING IN A TRAFFIC CONTROL PROGRAM  
 6561 7035 ON AN INTEGER PROGRAM FOR A DELIVERY PROBLEM  
 6562 7182 STRUCTURAL LINGUISTICS AND HUMAN COMMUNICATION  
 6562 7272 A GENERAL PURPOSE DIGITAL SIMULATOR AND EXAMPLES OF ITS APPLICATION, PART III, DIGITAL SIMULATION OF URBAN TRAFFIC  
 6564 7858 A DESCRIPTION OF THE MARITIME ADMINISTRATION MATHEMATICAL SIMULATION OF SHIP OPERATIONS  
 6564 7859 A ROOM FOR THE NIGHT  
 6564 7897 MATCHING COMMUNICATION FACILITIES TO DATA PROCESSORS  
 6566 8502 ANALYSIS FOR MILITARY DECISIONS  
 6566 8503 ANALYSIS FOR AIR FORCE DECISIONS  
 6566 8504 THE SELECTION AND USE OF STRATEGIC AIR BASES, A CASE HISTORY  
 6566 8505 ANALYSIS AND DESIGN OF CONFLICT SYSTEMS  
 6566 8506 ASSUMPTIONS ABOUT ENEMY BEHAVIOR  
 6566 8507 RECAPITULATION  
 6566 8508 A MISSILE COMPARISON  
 6566 8509 PAN-AM INSTALLING WORLDWIDE RESERVATION SYSTEM  
 6566 8544 REAL-TIME COMPUTERIZED EXPRESSWAY TRAFFIC CONTROL IN THE CHICAGO AREA  
 6566 8679 ALGORITHM FOR TRAFFIC CONTROL

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6451 4986 PROCEEDINGS OF THE CONFERENCE ON BUSINESS GAMES AS TEACHING DEVICES  
 6451 4995 BUSINESS SIMULATION  
 6452 5291 SPECIAL PRINTING DEVICE WITH TRANSFORMATION OF BINARY INTO DECIMAL NUMBER SYSTEM, AS EXEMPLIFIED BY THE INTERNATIONAL TELETYPE CODE  
 6452 5292 HIGH-SPEED TEXT COMPOSITION  
 6452 5293 DATA PROCESSING AND MANAGEMENT SERVICES  
 6452 5294 A COMPUTER PROGRAM FOR EDITING THE NEWS  
 6452 5295 DIGITAL DATA DISPLAY, I  
 6452 5296 DIGITAL DATA DISPLAY, II  
 6453 5599 RAMPS, A TECHNIQUE FOR RESOURCE ALLOCATION AND MULTIPROJECT SCHEDULING  
 6453 5600 A PROGRAMMED INTRODUCTION TO PERT  
 6453 5601 SAMPLING PROCEDURES AND TABLES FOR LIKE AND RELIABILITY TESTING BASED ON THE WEIBULL DISTRIBUTION (RELIABLE LIFE CRITERION).  
 6453 5602 MECHANIZATION OF ADMINISTRATIVE WORK BY PUNCHED CARDS  
 6454 5937 THE (R) EVOLUTION IN BOOK COMPOSITION, PART I  
 6454 5938 APPLICATION OF DISTRIBUTED MEMORY SYSTEMS TO SPACE NAVIGATION  
 6454 5939 ARTIFICIAL NEURONS, FOR MACHINES THAT LEARN  
 6454 5964 TECHNICAL INFORMATION FOR RESEARCH PROGRAM MANAGEMENT  
 6455 6251 COMPUTER-ORIENTED PEACE RESEARCH  
 6455 6252 POSSIBILITIES OF USING COMPUTER SYSTEMS FOR PETROLEUM AND PETROLEUM PRODUCTS ACCOUNTING IN REFINERIES  
 6455 6423 MONTE CARLO METHODS AND THE PERT PROBLEM  
 6456 6496 OLD MAC DONALD HAD SOME TAPE  
 6456 6601 FIFTEEN KEY FEATURES OF COMPUTER PROGRAMS FOR CPM AND PERT  
 6456 6602 DATA COLLECTION 1963

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6561 6896 ABOUT THE THEORY OF OPERATING-PROCESSES  
 6561 6921 SCIENTIFIC AND TECHNICAL LIBRARIES, THEIR ORGANIZATION AND ADMINISTRATION  
 6562 7135 RELATIVE EFFECTS OF CENTRAL PROCESSOR AND INPUT-OUTPUT SPEEDS UPON THROUGHPUT ON THE LARGE COMPUTER  
 6562 7195 EXPECTED CRITICAL PATH LENGTHS IN PERT NETWORKS  
 6562 7205 PAVE, PROGRAMMED ANALYSIS FOR VALUE ENGINEERING  
 6563 7494 ELECTRONIC COMPUTERS IN UNIVERSITY RESEARCH  
 6563 7583 AUTOMATED METHODS IN PERT PROCESSING  
 6563 7762 MANAGEMENT INFORMATION DATA DISPLAYS  
 6564 7860 CPM IN CONSTRUCTION MANAGEMENT  
 6564 7861 FINDING THE CRITICAL PATH  
 6565 8087 LIVING WITH A COMPUTER  
 6565 8146 STRATEGIES FOR USING PROGRAMED INSTRUCTION  
 6566 8435 EDUCATION AND TRAINING OF A BUSINESS PROGRAMMER  
 6566 8467 PROGRAMMED HEURISTICS AND THE CONCEPT OF PAR IN BUSINESS GAMES  
 6566 8488 INQUIRY STATION SPEEDS PATIENT BILLING  
 6566 8510 DECOMPOSITION OF PROJECT NETWORKS

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6451 4964 THE ROLE OF THE COMPUTER IN FUTURE INSTRUCTIONAL SYSTEMS  
 6452 5297 PROGRAM FOR DOUBLE-DUMMY BRIDGE PROBLEMS, A NEW STRATEGY FOR MECHANICAL GAME PLAYING  
 6452 5298 CONTINUED OPERATION NOTATION FOR SYMBOL MANIPULATION AND ARRAY PROCESSING  
 6452 5299 THE MINDS OF ROBOTS  
 6452 5300 SEVERAL QUESTIONS WHICH DETERMINE THE DEVELOPMENT OF CYBERNETICS  
 6452 5301 PRINCIPAL POSSIBILITIES OF PERFECTION OF CYBERNETIC SYSTEMS  
 6452 5302 CAN A COMPUTER THINK  
 6453 5489 APPLICATIONS OF DIGITAL COMPUTERS  
 6453 5603 INTELLIGENT AUTOMATA AND MAN-AUTOMATION COMBINATIONS A CRITIQUE AND REVIEW  
 6453 5604 PHILOSOPHICAL QUESTIONS OF CYBERNETICS  
 6453 5605 SEVERAL ACHIEVEMENTS OF CYBERNETICS IN THE LIGHT OF MARXIST-LENINIST TEACHINGS, ABOUT THE NATURE OF CONSCIOUSNESS, (A MACHINE AND CONSCIOUSNESS)  
 6453 5606 ALGORITHMS AND POSSIBILITIES OF CYBERNETICS  
 6453 5624 THE MECHANIZATION OF SCIENCE  
 6453 5627 THE APPLICATION OF AUTOMATA THEORY TO PROBLEMS IN INFORMATION RETRIEVAL  
 6453 5704 STATE OF THE ART IN SCIENTIFIC COMPUTING  
 6454 5940 THE MULTIPLICITY OF THOUGHT  
 6454 5952 THE VALUE OF INTROSPECTION TO THE DESIGNER OF MECHANICAL PROBLEM SOLVERS  
 6455 6148 THE SCIENCE WITH THE GREATEST POSSIBILITIES  
 6455 6253 PERCEPTRON-TYPE MODELS FOR RECOGNITION OF CONTINUOUS PATTERNS  
 6455 6254 BRAINS, MACHINES, AND MATHEMATICS  
 6455 6255 SYMPOSIUM ON ARTIFICIAL INTELLIGENCE  
 6455 6256 APPLICATION OF LIST-PROCESSING METHODS TO THE DESIGN OF INTERCONNECTIONS FOR A FAST LOGIC SYSTEM  
 6455 6257 ARTIFICIAL INTELLIGENCE RESEARCH  
 6455 6258 HUMAN INFORMATION PROCESSING  
 6455 6259 PATTERN RECOGNITION AND MACHINE LEARNING  
 6456 6524 NEW POSSIBILITIES OF RESEARCH ON HUMAN INFORMATION PROCESSING  
 6456 6561 ON THE POSSIBILITY OF ALGORITHM FORMATION BY MACHINE  
 6456 6565 COMPUTER SIMULATION OF HUMAN INTERACTION IN SMALL GROUPS  
 6456 6603 SELF-ORGANIZING SYSTEMS, 1962  
 6456 6604 CYBERNETICS INSIDE MAN  
 6561 6897 WHAT FUTURE IS THERE FOR INTELLIGENT MACHINES  
 6561 6898 THE MACHINERY OF THE BRAIN  
 6561 6911 ELEMENTARY PERCEIVER AND MEMORIZER, REVIEW OF EXPERIMENTS  
 6562 7206 INFORMATION SCIENCE, MAN AND MACHINE  
 6562 7207 A COMPUTER PROGRAM WHICH 'UNDERSTANDS'  
 6563 7584 INDUSTRIAL MANIPULATORS  
 6564 7862 COMPUTER AUGMENTATION OF HUMAN REASONING, WASH., D. C., JUNE 1964  
 6564 7863 POTENTIAL IMPLEMENTATION  
 6565 8057 PRINCIPLES OF AUTOMATION  
 6565 8174 THE ESTIMATION OF PROBABILITIES, AN ESSAY ON MODERN BAYESIAN METHODS  
 6565 8175 LIMITING RECURSION  
 6565 8176 A SESSION OF THE DEPARTMENT OF BIOLOGICAL SCIENCES OF THE ACADEMY OF SCIENCES OF THE SOVIET UNION, DEDICATED TO THE BIOLOGICAL ASPECTS OF CYBERNETICS, 3-5 APRIL 1962  
 6565 8177 LEARNING MACHINES  
 6566 8425 CYBERNETICS AND BIOLOGY  
 6566 8462 A DYNAMIC MODEL OF THE FIRM  
 6566 8472 ON CYBERNETICS, INFORMATION PROCESSING, AND THINKING  
 6566 8649 AUTOMATA THEORY AND ITS APPLICATIONS

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6456 6609 EMPIRICAL EXPLORATIONS OF A HYPOTHESIS-TESTING MODEL OF BINARY CHOICE BEHAVIOR  
 6561 6880 AN INDUCTIVE APPROACH TO LANGUAGE TRANSLATION  
 6564 7864 NATURAL LANGUAGE INPUTS FOR A PROBLEM-SOLVING SYSTEM

## 3.62 APPLICATIONS

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6451 4996 A MODEL OF THE INSTINCT OF SELF-PRESERVATION  
 6452 5231 ADAPTIVE TEACHING MACHINES  
 6452 5232 SOME THEORETICAL AND PRACTICAL PROBLEMS IN PROGRAMMED INSTRUCTION  
 6452 5297 PROGRAM FOR DOUBLE-DUMMY BRIDGE PROBLEMS, A NEW STRATEGY FOR MECHANICAL GAME PLAYING  
 6452 5303 A DIGITAL COMPUTER CARD-PLAYING PROGRAM  
 6452 5304 EXPERIMENTS ON THE MECHANIZATION OF GAME-LEARNING. PART 1, CHARACTERIZATION OF THE MODEL AND ITS PARAMETERS  
 6452 5305 ON AN INFORMATION LANGUAGE FOR GEOMETRY AND A TRANSLATION ALGORITHM FROM RUSSIAN INTO THIS INFORMATION LANGUAGE  
 6452 5306 THE SIMULATION OF LEARNING PROCESSES ON AUTOMATIC SYSTEMS  
 6452 5316 CYBERNETICS AND THE ACTIVITIES OF THE HUMAN BRAIN  
 6453 5552 A BEHAVIORAL THEORY OF THE FIRM  
 6453 5607 SELF-STABILIZING SYSTEMS, PT. 1  
 6453 5608 ADAPTIVE NEURAL NETWORKS AS BRAIN MODELS  
 6453 5642 JUSTIFICATION AND LIMITATION OF A 2-PARAMETER 2-ADJUSTMENT

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6453 5643 MULTIPARAMETER SELF-ADAPTATION USING AUXILIARY MODELS  
 6454 5941 MACHINE PERFORMING THE GAME NIM  
 6454 5986 ON THE THEORY OF OPTIMAL CONTROL, SUFFICIENT COORDINATES  
 6455 6260 ADAPTIVE CONTROL SYSTEMS  
 6456 6511 CYBERNETICS AND AUTOMATIC CONTROL  
 6456 6605 ON THE PATHS OF CYBERNETICS DEVELOPMENT  
 6456 6606 CORRELATION METHOD FOR RECOGNIZING PATTERNS  
 6456 6609 EMPIRICAL EXPLORATIONS OF A HYPOTHESIS-TESTING MODEL OF BINARY CHOICE BEHAVIOR  
 6456 6630 ON A METHOD OF SOLVING VARIATIONAL PROBLEMS  
 6456 6631 A METHOD OF STABILIZING THIRD-ORDER CONTROL SYSTEMS WITH LARGE AMPLIFIER GAINS, I  
 6456 6632 FORMULATING ALLOWED CONTROL LAWS  
 6561 6872 CONCEPT LEARNING, AN INFORMATION PROCESSING PROBLEM  
 6561 6880 AN INDUCTIVE APPROACH TO LANGUAGE TRANSLATION  
 6561 6899 AN ELECTRONIC MODEL OF AN ADAPTIVE AND LEARNING SYSTEM  
 6561 6911 ELEMENTARY PERCEIVER AND MEMORIZER, REVIEW OF EXPERIMENTS  
 6561 6932 A CRITICAL LOOK AT VEHICLE CONTROL TECHNIQUES  
 6562 7174 FREE RECALL OF SELF-EMBEDDED ENGLISH SENTENCES  
 6562 7208 INVESTIGATIONS OF BINARY PREDICTORS, INCLUDING THEIR ABILITY OF ADAPTATION AND PREDICTION AS COMPARED WITH EXPERIMENTAL SUBJECTS  
 6562 7209 THE PROPERTIES AND THE STRUCTURE OF LEARNING MATRICES FOR NON-BINARY SIGNALS  
 6562 7210 A COMPUTER-SIMULATED ON-LINE EXPERIMENT IN LEARNING CONTROL SYSTEMS  
 6562 7211 A NONLINEAR STOCHASTIC LEARNING MODEL  
 6562 7212 NONSUPERVISED ADAPTIVE SIGNAL DETECTION AND PATTERN RECOGNITION  
 6563 7586 MEASURING AND COMPUTATION BY BRAINS AND MACHINES  
 6563 7747 COMMENTS ON LEARNING AND ADAPTIVE MACHINES FOR PATTERN RECOGNITION  
 6564 7810 PHILLIPS TRIES DDA COMPUTER  
 6565 8177 LEARNING MACHINES  
 6565 8178 GAKU, AN ARTIFICIAL STUDENT  
 6565 8181 LINEAR AND NONLINEAR METHODS IN PATTERN CLASSIFICATION  
 6565 8183 PROBLEM-SOLVING MACHINES  
 6565 8214 ON LINE COMPUTER CONTROL TECHNIQUES AND THEIR APPLICATION TO RE-ENTRY AEROSPACE VEHICLE CONTROL  
 6566 8511 LEARNING IN SOME SIMPLE NONBIOLOGICAL SYSTEMS  
 6566 8512 INTELLIGENT MACHINES AND HAZY QUESTIONS  
 6566 8513 THE RELATIONSHIP OF ALGORITHMS USED WITH ADJUSTABLE THRESHOLD ELEMENTS TO DIFFERENTIAL EQUATIONS  
 6566 8514 LIMIT DISTRIBUTIONS IN THE LEARNING PROBABILITY MODEL  
 6566 8708 INVERTIBLE BOOLEAN FUNCTIONS

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6451 4997 THE USE OF THE CONTOURS OF SYMBOLS IN AUTOMATIC CHARACTER RECOGNITION  
 6451 4998 THE AUTOMATIC DISTINCTION OF CHARACTERS BY ELEMENTS OF THEIR FORM  
 6451 4999 AUTOMATIC READING OF CHARACTERS IN A PRINTED LINE  
 6451 5000 BASIC METHODS FOR AUTOMATIC READING AND RECOGNITION OF TEXT MATTER  
 6451 5001 READING MACHINE  
 6452 5175 STANDARDS FOR INFORMATION PROCESSING, A PROGRESS REPORT  
 6452 5192 SATELLITE ATTITUDE CONTROL SYSTEMS  
 6452 5271 UNIT RECORDS DESIGNED WITH AUTOMATION IN MIND, PT. 1  
 6452 5307 AN APPROACH TO THE PROBLEM OF CONSTRUCTING A SCHEME FOR SYNTHESIS OF A READING APPARATUS  
 6452 5308 PATTERN SEPARATION BY CONVEX PROGRAMMING  
 6452 5309 AN AUTOMATIC READER BASED ON ANALYSIS OF DIRECTIONS  
 6452 5310 APPLICATION OF A TELEVISION SET IN CHARACTER READING  
 6452 5311 AN ANALOG-DIGITAL SYSTEM FOR CHARACTER RECOGNITION  
 6452 5312 THE PROBLEM OF IDENTIFYING FIGURE SYMBOLS  
 6452 5313 CORRELATIONAL METHOD OF PATTERN RECOGNITION  
 6452 5314 DETERMINING THE NUMBER OF ELEMENTS  
 6453 5556 BASIC QUESTIONS OF THE MACHINE-VISION  
 6453 5608 ADAPTIVE NEURAL NETWORKS AS BRAIN MODELS  
 6453 5609 A NEW METHOD FOR AUTOMATIC CHARACTER RECOGNITION  
 6453 5610 STATISTICAL RECOGNITION FUNCTIONS AND THE DESIGN OF PATTERN RECOGNIZERS  
 6453 5611 AN AUDITORY PATTERN PROCESSING MODEL  
 6453 5612 SPEECH DATA ANALYSED BY COMPUTER PROGRAM CLASSIFICATION AND RECOGNITION OF JAPANESE MONOSYLLABLES  
 6453 5613 RECOGNITION OF PRINTED CHARACTERS  
 6454 5942 EXPERIMENTAL STUDY OF HUMAN FACTORS FOR A HANDWRITTEN NUMERAL READER  
 6454 5943 CONVERSION OF IMAGES IN A MODEL OF A CONTINUOUS NEURON NETWORK  
 6454 5944 AUTOMATIC READING MACHINE FOR TELEGRAPH SERVICE  
 6454 5945 SELECTION OF CRITERIA IN MECHANICAL RECOGNITION  
 6454 5946 SOME APPROACHES TO A PRACTICAL SOLUTION OF THE PROBLEM OF RECOGNITION  
 6454 5947 INVESTIGATION OF AN ALGORITHM FOR RECOGNITION OF TYPEWRITTEN SYMBOLS  
 6454 5948 PITCH EXTRACTOR  
 6455 6176 SEQUENCE DETERMINATION IN BIOPOLYMERS  
 6455 6206 CONTINUOUS RECOGNITION OF SPEECH BY MAN  
 6455 6257 ARTIFICIAL INTELLIGENCE RESEARCH  
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 6455 6259 PATTERN RECOGNITION AND MACHINE LEARNING  
 6455 6261 THE PHONETIC TYPEWRITER  
 6455 6262 CHARACTER RECOGNITION  
 6455 6263 SYMPOSIUM ON PATTERN RECOGNITION  
 6455 6264 A NOTE ON PATTERN-RECOGNITION TECHNIQUES AND GAME-PLAYING PROGRAMS  
 6455 6265 AUTOMATIC READING OF DIGITS  
 6455 6266 SYMPOSIUM ON BIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF PATTERN RECOGNITION  
 6455 6267 THE ADVANTAGES OF SELF-ADAPTIVE UNISERIAL PATTERN-RECOGNITION SYSTEMS  
 6456 6511 CYBERNETICS AND AUTOMATIC CONTROL  
 6456 6529 CONTROL TECHNOLOGY AND THE BRAIN  
 6456 6538 A MATHEMATICAL MODELING METHOD FOR SPEECH SIGNAL TRANSMISSION SYSTEMS  
 6456 6610 SPEECH SYNTHESIS FROM STORED DATA  
 6456 6815 OPTICAL CHARACTER RECOGNITION SYSTEMS  
 6561 6900 CORRELATION METHOD OF PATTERN RECOGNITION  
 6561 6901 SIMILARITY AND ENTROPY  
 6561 6902 GEOMETRY OF AUTOMATIC CHARACTER RECOGNITION  
 6561 6903 CAN A PRIORI PROBABILITIES HELP IN CHARACTER RECOGNITION  
 6561 6904 A SYSTEM FOR PATTERN RECOGNITION BY THE METHOD FRAGMENTS  
 6561 6905 SOME PROBLEMS IN INCREASING THE RELIABILITY OF THE AUTOMATIC READING OF A TEXT

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6561 6906 USING A TELEVISION ARRANGEMENT FOR PATTERN RECOGNITION  
 6561 6907 THE AUTOMATIC READING OF SYMBOLS IN A PRINTED LINE  
 6561 6908 THE PROBLEM OF DESIGNING A SYNTHESIS SCHEME FOR A PATTERN RECOGNITION APPARATUS  
 6561 6909 A PATTERN RECOGNITION AUTOMATON, BASED ON DIRECTION ANALYSIS  
 6561 6911 ELEMENTARY PERCEIVER AND MEMORIZER, REVIEW OF EXPERIMENTS  
 6561 7066 THE USE OF CONTEXT FOR CORRECTING GARBLED ENGLISH TEXT  
 6562 7199 OPTICAL HANDLING OF CHECKS  
 6562 7212 NONSUPERVISED ADAPTIVE SIGNAL DETECTION AND PATTERN RECOGNITION  
 6562 7213 PATTERN RECOGNITION FOR DIAGNOSIS OF FACIAL CHARACTERISTICS  
 6562 7214 COINCIDENCE=FILTERS AS MODELS OF HUMAN ACOUSTIC FREQUENCY DISCRIMINATION ABILITIES  
 6562 7215 APPLICATION OF AN ASSOCIATIVELY ADDRESSED, DISTRIBUTED MEMORY  
 6562 7216 RECOGNIZING PATTERNS WITH THREADED CORES  
 6562 7217 RECOGNITION CHARACTERISTICS OF LOGIC SYMBOL TYPES  
 6562 7218 THE PRINCIPLES OF PATTERN RECOGNITION  
 6563 7585 REAL TIME RECOGNITION OF HAND-DRAWN CHARACTERS  
 6563 7586 MEASURING AND COMPUTATION BY BRAINS AND MACHINES  
 6563 7587 A SYSTEM FOR AUTOMATIC RECOGNITION OF HANDWRITTEN WORDS  
 6563 7588 PROPOSED AMERICAN STANDARD, CHARACTER SET FOR OPTICAL CHARACTER RECOGNITION  
 6563 7747 COMMENTS ON LEARNING AND ADAPTIVE MACHINES FOR PATTERN RECOGNITION  
 6564 7865 ANALYSIS OF THE RELIABILITY OF CHARACTER RECOGNITION BASED ON STATISTICAL ANALYSIS  
 6564 7866 ERROR RATES FOR TWO METHODS OF STATISTICAL PATTERN RECOGNITION  
 6564 8041 OPTOELECTRONIC DEVICES AND CIRCUITS  
 6565 8179 MACHINE RECOGNITION OF HAND PRINTING  
 6565 8180 OPTIMAL DECISION FUNCTIONS FOR COMPUTER CHARACTER RECOGNITION  
 6565 8181 LINEAR AND NONLINEAR METHODS IN PATTERN CLASSIFICATION  
 6565 8182 THE IDENTIFICATION OF IMAGES IN THE OPTICAL SYSTEM  
 6565 8256 A UNIVERSAL METHOD OF CODING GEOMETRICAL INFORMATION, GIVEN ON A DRAWING, FOR INPUT TO DIGITAL COMPUTERS  
 6566 8515 A DEVICE FOR READING HANDWRITTEN AND MACHINE PRINTED NUMBERS  
 6566 8516 ON OPTICAL CHARACTER RECOGNITION OF TEXT  
 6566 8517 LINGUISTIC PROBLEMS IN THE RECOGNITION OF CHINESE AND JAPANESE CHARACTERS  
 6566 8518 A PROBLEM IN PATTERN RECOGNITION  
 6566 8519 A PROBABILITY APPROACH TO THE DESIGN OF THE SYNTHESIS UNIT IN READING MACHINES  
 6566 8532 'TALKING COMPUTER' QUOTATION SERVICE

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ARTIFICIAL INTELLIGENCE = PROBLEM-SOLVING

6452 5235 INTERACTIONS BETWEEN FUTURE COMPUTER DEVELOPMENTS AND AUTOMATED TEACHING METHODS  
 6453 5614 ELIMINATING THE IRRELEVANT FROM MECHANICAL PROOFS  
 6453 5615 RECOGNITION OF TYPED LETTERS IN NOISE  
 6454 5949 MAN-MACHINE CONSOLE FACILITIES FOR COMPUTER-AIDED DESIGN  
 6454 5950 SKETCHPAD III, A COMPUTER PROGRAM FOR DRAWING IN THREE DIMENSIONS  
 6454 5951 SKETCHPAD, A MAN-MACHINE GRAPHICAL COMMUNICATION SYSTEM  
 6454 5952 THE VALUE OF INSPECTION TO THE DESIGNER OF MECHANICAL PROBLEM SOLVERS  
 6455 6264 A NOTE ON PATTERN-RECOGNITION TECHNIQUES AND GAME-PLAYING PROGRAMS  
 6456 6522 ULTRAVIOLET ABSORPTION SPECTRA OF POLYNUCLEOTIDES  
 6456 6607 INTRODUCTION TO SIMULATION  
 6456 6608 EXPERIMENTS WITH A THEOREM-UTILIZING PROGRAM  
 6561 6910 BALANCING ASSEMBLY LINES USING THE GENERAL PROBLEM SOLVER  
 6562 7183 A QUESTION-ANSWERING SYSTEM FOR HIGH SCHOOL ALGEBRA WORD PROBLEMS  
 6562 7219 THEOREM TESTING BY COMPUTER  
 6562 7220 MACHINE-GENERATED PROBLEM-SOLVING GRAPHS  
 6563 7589 HOW A COMPUTER SYSTEM CAN LEARN  
 6563 7590 A PARTIAL ANALYSIS OF GO  
 6564 7864 NATURAL LANGUAGE INPUTS FOR A PROBLEM-SOLVING SYSTEM  
 6564 7867 EXPERIMENTAL HEURISTIC AS AN APPROACH IN PROBLEM SOLVING  
 6565 8178 GAKU, AN ARTIFICIAL STUDENT  
 6565 8183 PROBLEM-SOLVING MACHINES  
 6565 8238 COMPUTER-CONTROLLED GRAPHICAL DISPLAY, ITS APPLICATIONS AND MARKET  
 6566 8511 LEARNING IN SOME SIMPLE NONBIOLOGICAL SYSTEMS  
 6566 8520 SOLVING PROBLEMS

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6451 5002 COORDINATION BETWEEN THE ARBITRARY MOTIONS OF MAN WITH THE POSITIONS OF COMMON CONFORMITIES OF CONTROL AND CONTROLLING SYSTEMS  
 6452 5237 SYNTACTIC DEPENDENCE AND THE COMPUTER GENERATION OF COHERENT DISCOURSE  
 6452 5244 COMPUTERS MOVE IN ON MEDICINE  
 6452 5306 THE SIMULATION OF LEARNING PROCESSES ON AUTOMATIC SYSTEMS  
 6452 5307 AN APPROACH TO THE PROBLEM OF CONSTRUCTING A SCHEME FOR SYNTHESIS OF A READING APPARATUS  
 6452 5315 A COMPUTER MODEL OF ELEMENTARY SOCIAL BEHAVIOR  
 6452 5316 CYBERNETICS AND THE ACTIVITIES OF THE HUMAN BRAIN  
 6453 5552 A BEHAVIORAL THEORY OF THE FIRM  
 6453 5616 A COMPUTER AID FOR SYMBOLIC MATHEMATICS  
 6454 5879 SIMULATION OF AN ASSEMBLY OF SIMPLIFIED NERVE CELLS ON A DIGITAL COMPUTER  
 6454 5880 CONTROL THEORY AND BIOLOGICAL SYSTEMS  
 6454 6100 ON A MEASURE OF THE ORDERLINESS OF A BOOLEAN FUNCTION  
 6455 6180 THE APPLICATION OF CYBERNETICS TO BIOLOGY AND MEDICINE  
 6455 6205 THE MODELING OF MIND, COMPUTERS AND INTELLIGENCE  
 6455 6219 SIMULATING A PROBABILISTIC PROCESS, CONNECTED WITH COMPOSING A MELODY  
 6455 6268 A HEURISTIC PROGRAM TO SOLVE GEOMETRIC=ANALOGY PROBLEMS  
 6455 6269 GENERALIZATION OF AN ELEMENTARY PERCEIVING AND MEMORIZING MACHINE  
 6455 6270 A COMPLEX STUDY OF MAN AS THE NEXT PROBLEM OF CONTEMPORARY SCIENCE  
 6456 6511 CYBERNETICS AND AUTOMATIC CONTROL  
 6456 6522 ULTRAVIOLET ABSORPTION SPECTRA OF POLYNUCLEOTIDES  
 6456 6587 SIMULATION AND OPERATING PROBLEMS  
 6456 6605 ON THE PATHS OF CYBERNETICS DEVELOPMENT  
 6456 6607 INTRODUCTION TO SIMULATION  
 6456 6609 EMPIRICAL EXPLORATIONS OF A HYPOTHESIS=TESTING MODEL OF

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BINARY CHOICE BEHAVIOR  
 6561 6911 ELEMENTARY PERCEIVER AND MEMORIZER, REVIEW OF EXPERIMENTS  
 6561 7030 A MANAGEMENT CONTROL SYSTEMS SIMULATION MODEL  
 6562 7214 COINCIDENCE=FILTERS AS MODELS OF HUMAN ACOUSTIC FREQUENCY DISCRIMINATION ABILITIES  
 6562 7221 THE UNIT PREFERENCE STRATEGY IN THEOREM PROVING  
 6563 7591 THE USE OF A JOB SHOP SIMULATOR IN THE GENERATION OF PRODUCTION SCHEDULES  
 6563 7622 AN ANALYSIS OF THE CONCEPT OF SIMULATION  
 6563 7632 A LANGUAGE FOR SIMULATION  
 6563 7643 ANSWERING ENGLISH QUESTIONS BY COMPUTER, A SURVEY  
 6564 7844 COMPUTERISED BUSINESS MANAGEMENT GAMES  
 6564 7868 PLATO, A COMPUTER-CONTROLLED TEACHING SYSTEM  
 6564 7869 BETTER VOCODERS ARE COMING  
 6564 7870 NUMERICAL INTEGRATION OF A DIFFERENTIAL-DIFFERENCE EQUATION WITH A DECREASING TIME-LAG  
 6565 8144 PROGRESS IN PHYSIOLOGICAL SIMULATION, THE HUMAN RESPIRATORY SYSTEM  
 6565 8148 EXPERIENCE OF THE ANALYSIS WHICH GUIDES THE WORK OF MAN BASED ON THE CONSTRUCTION OF LOGICAL DIAGRAM FOR AN ALGORITHM OF THE WORKING PROCESS  
 6565 8184 A HYPOTHETICAL MODEL OF THE NEURON, REALIZED ON A CORE WITH A RIGHT ANGLED HYSTERESIS LOOP, A FERRISTOR  
 6565 8185 THE TECHNICAL SIMULATION OF NEURONS  
 6566 8521 THE PAST, PRESENT, AND FUTURE OF GENERAL SIMULATION LANGUAGES  
 6566 8561 QUIKSCRIPT = A SIMSCRIPT-LIKE LANGUAGE FOR THE G=20

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ARTIFICIAL INTELLIGENCE = THEORY OF HEURISTIC METHODS

6451 5003 ARTIFICIAL NEURON  
 6453 5592 A REVIEW OF ANALYTICAL SYSTEMS OF LINE BALANCING  
 6454 5949 MAN-MACHINE CONSOLE FACILITIES FOR COMPUTER-AIDED DESIGN  
 6454 5950 SKETCHPAD III, A COMPUTER PROGRAM FOR DRAWING IN THREE DIMENSIONS  
 6454 5951 SKETCHPAD, A MAN-MACHINE GRAPHICAL COMMUNICATION SYSTEM  
 6454 5953 THE COMPUTER IN THE BATHTUB OR PROGRAMMING TECHNIQUES FOR PROCESSING CLUES AND HINTS  
 6454 5954 EXPERIMENTS WITH A HEURISTIC COMPILER  
 6455 6257 ARTIFICIAL INTELLIGENCE RESEARCH  
 6455 6258 HUMAN INFORMATION PROCESSING  
 6455 6259 PATTERN RECOGNITION AND MACHINE LEARNING  
 6562 7222 ADMINISTRATIVE DECISION-MAKING, A HEURISTIC MODEL  
 6564 7871 REASONING IN GAME PLAYING BY MACHINES  
 6564 7872 HEURISTIC PROBLEM SOLVING BY COMPUTER  
 6564 7873 TOWARD A FORMAL THEORY OF PROBLEM SOLVING  
 6564 7993 OBSERVATIONS CONCERNING COMPUTATION, DEDUCTION, AND HEURISTICS  
 6566 8480 ON THE VALUE OF A DEPENDENCY CONNECTION

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6452 5317 THE AUTOMATIC CONTROL OF ARTIFICIAL LIMBS  
 6453 5617 COMPUTER PROGRAMS FOR CHECKING MATHEMATICAL PROOFS  
 6453 5618 PROGRAMMING THE PROCESS OF COMPOSING MUSIC  
 6453 5666 DRIVERLESS TRACTORS FOR MATERIALS HANDLING  
 6454 5914 GRID COMPOSITION IN AN ISOLATION ENVIRONMENT  
 6456 6558 A MACHINE CAPABLE OF CONVERSING  
 6456 6610 SPEECH SYNTHESIS FROM STORED DATA  
 6563 7592 HUMAN AMPLIFIERS  
 6565 8186 AN EXTENSION OF BLOCK DESIGN METHODS AND AN APPLICATION IN THE CONSTRUCTION OF REDUNDANT FAULT REDUCING CIRCUITS FOR COMPUTERS  
 6566 8459 AN ADAPTIVE CONTROL OF THE BATCH REACTOR = 1. IDENTIFICATION OF KINETICS  
 6566 8515 A DEVICE FOR READING HANDWRITTEN AND MACHINE PRINTED NUMBERS

## 3.70 APPLICATIONS

INFORMATION RETRIEVAL = GENERAL

6451 4964 THE ROLE OF THE COMPUTER IN FUTURE INSTRUCTIONAL SYSTEMS  
 6451 4971 THE COMPUTER AS A TOOL FOR LEGAL RESEARCH  
 6451 4975 A COMPUTATIONAL APPROACH TO GRAMMATICAL CODING OF ENGLISH WORDS  
 6451 5004 THE STATE OF THE ART OF COORDINATE INDEXING  
 6452 5318 CREATING A MACHINE LANGUAGE FOR ORGANIC CHEMISTRY  
 6452 5319 PROBABILITY AND THE LIBRARY PROBLEM  
 6452 5320 A PUNCHED CARD RETRIEVAL SYSTEM FOR AUTOMOBILE ACCIDENT CASES  
 6452 5321 INFORMATION RETRIEVAL IN ACTION  
 6453 5489 APPLICATIONS OF DIGITAL COMPUTERS  
 6453 5546 AUTOMATIC TROUBLE DIAGNOSIS OF COMPLEX LOGIC CIRCUITS  
 6453 5619 AN INFORMATION RETRIEVAL LANGUAGE FOR LEGAL STUDIES  
 6453 5620 EXPERIENCE WITH A GENERALIZED INFORMATION PROCESSING SYSTEM  
 6453 5621 INFORMATION RETRIEVAL AT THE NEW MONSANTO INFORMATION CENTER  
 6453 5622 CENTRALIZATION AND DOCUMENTATION  
 6453 5623 A NEW APPROACH TO BETTER INDEXING  
 6453 5624 THE MECHANIZATION OF SCIENCE  
 6453 5625 ON THE SOLUTION OF AN INFORMATION RETRIEVAL PROBLEM LINEARLY ORGANIZED CHEMICAL CODE FOR USE IN COMPUTER SYSTEMS (LOCAL)  
 6453 5627 THE APPLICATION OF AUTOMATA THEORY TO PROBLEMS IN INFORMATION RETRIEVAL  
 6453 5628 AN INTRODUCTION TO DEEP (COORDINATE) INDEXES  
 6453 5629 A 300 NANOSECOND SEARCH MEMORY  
 6453 5630 AN EVALUATION OF STORAGE ALLOCATION SYSTEMS  
 6454 5935 A DATA PROCESSING SYSTEM FOR STATE AND LOCAL GOVERNMENTS  
 6454 5955 A FLEXIBLE DIRECT FILE APPROACH TO INFORMATION RETRIEVAL, TEXT EDIT, SEARCH OR SELECT AND PRINT ON AN IBM 1401  
 6454 5956 THE MECHANIZATION OF BIBLIOGRAPHIC WORK AT THE CENTRAL DOCUMENTATION SERVICE OF THE ATOMIC ENERGY COMMISSION  
 6454 5957 RANDOMIZED BINARY SEARCHING WITH TREE STRUCTURES  
 6455 6172 PROBLEMS IN THE RETRIEVAL OF INFORMATION FROM NATURAL HISTORY MUSEUMS  
 6455 6271 AUTOMATIC DOCUMENT CLASSIFICATION, PT. II, ADDITIONAL EXPERIMENTS  
 6455 6272 PRACTICAL ASPECTS CONCERNING THE DEVELOPMENT AND USE OF ASIATIS THESAURUS IN INFORMATION RETRIEVAL  
 6455 6273 FINDINGS OF CURATOR, SURVEY OF DOCUMENTATION SYSTEMS  
 6455 6274 SUMMARY OF ACTIVITIES OF THE WESTERN RESERVE UNIVERSITY IN THE FIELD OF INFORMATION RETRIEVAL

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6455 6275 CLASSIFICATION AND MECHANIZATION  
 6455 6276 PROBLEMS IN THE CONSTRUCTION OF DESCRIPTOR INFORMATION SEARCH SYSTEMS  
 6455 6277 SYMPOSIUM ON ADVANCED METHODS IN INFORMATION STORAGE AND RETRIEVAL  
 6455 6278 BIBLIOGRAPHIC COUPLING EXTENDED IN TIME, TEN CASE HISTORIES  
 6455 6279 INFORMATION RETRIEVAL, REVIEW AND PROSPECTUS  
 6455 6280 SEVERAL PROBLEMS IN CONSTRUCTION OF INFORMATION RETRIEVAL SYSTEMS  
 6455 6281 BASIC PROBLEMS IN MECHANIZING INFORMATION PREPARATION AND RETRIEVAL  
 6455 6399 SOME APPROACHES TO THE THEORY OF INFORMATION SYSTEMS  
 6456 6529 CONTROL TECHNOLOGY AND THE BRAIN  
 6456 6552 REPORT OF RESEARCH AND DEVELOPMENT OF MEDICAL INFORMATION RETRIEVAL PROJECTS  
 6456 6569 NATURAL LANGUAGE AND THE COMPUTER  
 6456 6611 THE FIRST STEP TO IR  
 6456 6612 BIBLIOGRAPHY OF USE STUDIES  
 6456 6613 INFORMATION HANDLING AND SCIENCE INFORMATION, A SELECTED BIBLIOGRAPHY 1957-1961  
 6456 6614 THE CHARTER, A 'MUST' FOR EFFECTIVE INFORMATION SYSTEM PLANNING AND DESIGN  
 6456 6615 TRAINING A COMPUTER TO ASSIGN DESCRIPTORS TO DOCUMENTS, EXPERIMENTS IN AUTOMATIC INDEXING  
 6456 6616 BLIND MAN'S BLUFF  
 6456 6623 RESEARCH IN AUTOMATIC GENERATION OF CLASSIFICATION SYSTEMS  
 6456 6810 DESIGN OF AN EXPERIMENTAL MULTIPLE INSTANTANEOUS RESPONSE FILE  
 6456 6828 JURIMETRICS AND GENERAL SEMANTICS  
 6456 6874 THE MICROSTATISTICS OF TEXT  
 6456 6889 THE AUTOMATION OF SCHOOL INFORMATION SYSTEMS  
 6456 6912 STORAGE AND RETRIEVAL, A SYSTEM FOR EVERY NEED  
 6456 6913 ROTADEX, A NEW INDEX FOR GENERIC SEARCHING OF CHEMICAL COMPOUNDS  
 6456 6914 ON FUNDAMENTALS FOR DESIGNING MACHINES FOR INFORMATION PROCESSING  
 6456 6918 DATA RETRIEVAL  
 6456 7168 THE USE OF FUNCTIONS OF LEGISLATIVE TERMS IN LEGAL WRITING  
 6456 7178 LANGUAGE AND INFORMATION, SELECTED ESSAYS ON THEIR THEORY AND APPLICATION  
 6456 7187 PANEL ON SEMANTICS AND SYNTACTICS  
 6456 7223 SURVEY OF CHEMICAL NOTATION SYSTEMS  
 6456 7224 MECHANIZED INDEXING METHODS AND THEIR TESTING  
 6456 7225 THEORETICAL CONSIDERATIONS IN INFORMATION RETRIEVAL SYSTEMS  
 6456 7226 COMPUTER-PRODUCED INDEXES  
 6456 7227 A COMPUTER TECHNIQUE FOR THE RETRIEVAL OF RELATED CHEMICAL STRUCTURES UTILIZING A SPECIAL TOPOLOGICAL CIPHER  
 6456 7228 THE COVERAGE OF HEAVY ELECTRICAL ENGINEERING PERIODICAL LITERATURE BY ABSTRACTS JOURNALS  
 6456 7231 THE MECHANIZED LIBRARY  
 6456 7233 THE SINGULARITY SUB=LINK, A NEW TOOL FOR USE IN THE STORAGE AND RETRIEVAL OF INFORMATION  
 6456 7235 ELECTRONIC DIGITAL INTEGRATING COMPUTERS, DIGITAL DIFFERENTIAL ANALYZERS  
 6456 7593 LIBRARIES AND AUTOMATION  
 6456 7770 COMPUTER LITERATURE BIBLIOGRAPHY, 1946 TO 1963  
 6456 7771 PERMUTED (KWIC) INDEX TO COMPUTING REVIEWS, 1960-1963  
 6456 7811 CHEMSEARCH, AN OPERATING COMPUTER SYSTEM FOR RETRIEVING CHEMICALS SELECTED FOR EQUAL, ANALOGOUS, OR RELATED CHARACTER  
 6456 7812 A GRAPH=THEORETIC ALGORITHM FOR MATCHING CHEMICAL STRUCTURES  
 6456 7813 A CHEMICAL STRUCTURE STORAGE AND SEARCH SYSTEM DEVELOPED AT DUPONT  
 6456 7842 BUSINESS SYSTEMS, VOLS. I AND II  
 6456 7874 INFORMATION RETRIEVAL AND SUBJECT INDEXING, CRANFIELD AND AFTER  
 6456 7875 BROWSING IN AN AUTOMATED LIBRARY THROUGH REMOTE ACCESS  
 6456 7876 INPUT AND OUTPUT, TECHNICAL INFORMATION RETRIEVAL  
 6456 7877 SPECIALIZED INFORMATION CENTERS  
 6456 7878 RAPID STRUCTURE SEARCHES VIA PERMUTED CHEMICAL LINE NOTATIONS, II. A KEY=PUNCH PROCEDURE FOR THE GENERATION OF AN INDEX FOR A SMALL FILE  
 6456 8118 A CHEMICAL CODE FOR SEARCHING SPECTROCHEMICAL INFORMATION  
 6456 8164 PERSONNEL REPORTS, A CBS SPECIAL  
 6456 8187 PERFORMANCE INDICES FOR DOCUMENT RETRIEVAL SYSTEMS  
 6456 8188 THE SMART AUTOMATIC TEXT PROCESSING AND DOCUMENT RETRIEVAL SYSTEM  
 6456 8189 CONF. TECH. INF. CENTER ADMIN., VOL. 1  
 6456 8190 USER REQUIREMENTS AND PUBLIC RELATIONS  
 6456 8191 THE SMART AUTOMATIC DOCUMENT RETRIEVAL SYSTEM, AN ILLUSTRATION  
 6456 8192 THE STUDY OF THE STORAGE AND RETRIEVAL OF SCIENTIFIC INFORMATION  
 6456 8199 THE USE OF SUBORDINATE AND COORDINATE INDEXES VS. THE SCANNING OF THEIR OUTPUTS  
 6456 8200 A CENTRAL INFORMATION RETRIEVAL SYSTEM  
 6456 8522 CONSTRUCTION AND LOOKUP IN A DICTIONARY OF KEYWORDS  
 6456 8523 THE ORGANIZATION OF STRUCTURED FILES  
 6456 8524 AN ESSAY IN INFORMATION RETRIEVAL OR THE BIRTH OF A MYTH  
 6456 8525 THE IEEE PROGRAM FOR THE IMPROVEMENT OF INFORMATION DISSEMINATION AND RETRIEVAL  
 6456 8526 DICTIONARY CONSTRUCTION AND UPDATING  
 6456 8737 MICROWAVE READOUT OF FERRITE MEMORY STORAGE

### 3.71 APPLICATIONS INFORMATION RETRIEVAL = CONTENT ANALYSIS

6451 5005 AUTOMATIC DOCUMENT CLASSIFICATION  
 6452 5322 SELECTED BIBLIOGRAPHY ON INDEXING IN SCIENCE AND TECHNOLOGY, THEORY, APPLICATION AND TECHNIQUES  
 6453 5631 MECHANICAL INDEXING OF PROPER NOUNS  
 6453 5632 AUTOMATION AND THE LIBRARY OF CONGRESS  
 6453 5633 A COMPUTER EXPERIMENT FOR SENTENCE EXTRACTION  
 6453 5634 REPORT ON A SYNTACTIC ANALYSIS PROGRAM FOR INFORMATION RETRIEVAL  
 6454 5878 COMPUTER USED IN STUDY OF CHROMOSOMES  
 6454 5958 ASSOCIATIVE DOCUMENT RETRIEVAL TECHNIQUES USING BIBLIOGRAPHIC INFORMATION  
 6454 5959 ALGORITHMIC METHOD OF DISCRIMINATING SUBJECT CONCEPTS FOR INDEX COMPILATION (METHOD OF NOMENCLATOR PAIRS)  
 6454 5961 EXTENSIVE RELATIONS AS THE NECESSARY CONDITION FOR THE SIGNIFICANCE OF 'THESAURI' FOR MECHANIZED INDEXING  
 6455 6176 SEQUENCE DETERMINATION IN BIOPOLYMERS  
 6455 6282 A DISCRIMINANT METHOD FOR AUTOMATICALLY CLASSIFYING DOCUMENTS  
 6456 6522 ULTRAVIOLET ABSORPTION SPECTRA OF POLYNUCLEOTIDES  
 6456 6546 THE USE OF CYBERNETICS IN LAW

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6456 6880 AN INDUCTIVE APPROACH TO LANGUAGE TRANSLATION  
 6456 6915 SOME PATTERNS OBSERVED IN THE CONTEXTUAL SPECIALIZATION OF WORD SENSES  
 6456 6916 SOME FLEXIBLE INFORMATION RETRIEVAL SYSTEMS USING STRUCTURE MATCHING PROCEDURES  
 6456 7229 COMPUTER ANALYSIS OF THE NUCLEAR TEST BAN TREATY  
 6456 7230 A TECHNIQUE FOR HANDLING LONG TECHNICAL TERMS IN HIGH SPEED INFORMATION RETRIEVAL  
 6456 7544 THE COMPUTER SEEN AS A TECHNOLOGICAL AID TO HUMANITIES RESEARCH IN THE INDEX TO THE 'REVISTA DE FILOLOGIA ESPANOLA'  
 6456 7643 ANSWERING ENGLISH QUESTIONS BY COMPUTER, A SURVEY  
 6456 7879 AN INTRODUCTION TO THE GENERAL INQUIRER, A COMPUTER SYSTEM FOR THE STUDY OF SPOKEN OR WRITTEN MATERIAL  
 6456 8116 A LINE=FORMULA NOTATION SYSTEM FOR COORDINATION COMPOUNDS  
 6456 8193 KEYWORD-IN=CONTEXT (KWIC) INDEXING, BACKGROUND, STATISTICAL EVALUATION, PROS AND CONS, AND APPLICATIONS  
 6456 8194 AUTOMATIC PHRASE MATCHING  
 6456 8195 AN ADAPTATION OF THE 'GENERAL INQUIRER' FOR THE SYSTEMATIC ANALYSIS OF POLITICAL DOCUMENTS  
 6456 8196 THE IBM 1620 AS A TOOL FOR INVESTIGATING PRINCIPLES OF AUTO=ABSTRACTING  
 6456 8197 ABSTRACTING CONTROL  
 6456 8198 INDEXING CONTROL IN THE TECHNICAL INFORMATION CENTER  
 6456 8356 SYMBOLIC NOTATIONS FOR STATISTICAL TABLES AND AN APPROACH TOWARDS AUTOMATIC SYSTEM DESIGN  
 6456 8478 SEMANTIC PROBLEMS OF MACHINE TRANSLATION  
 6456 8527 DOCUMENT ASSOCIATION AND CLASSIFICATION BASED ON L=LANGUAGES

### 3.72 APPLICATIONS INFORMATION RETRIEVAL = EVALUATION OF SYSTEMS

6452 5240 JURIMETRICS, THE METHODOLOGY OF LEGAL INQUIRY  
 6452 5323 INFORMATION RETRIEVAL SYSTEMS, STATISTICAL DECISION THEORY MAY PROVIDE A MEASURE OF EFFECTIVENESS BETTER THAN MEASURES PROPOSED TO DATE  
 6453 5622 CENTRALIZATION AND DOCUMENTATION  
 6453 5625 ON THE SOLUTION OF AN INFORMATION RETRIEVAL PROBLEM  
 6453 5632 AUTOMATION AND THE LIBRARY OF CONGRESS  
 6453 5635 GENERIC SEARCHING BY USE OF ROTATED FORMULA INDEXES  
 6453 5636 THE DIRECT ACCESS SEARCH SYSTEM  
 6453 5637 A REPORT ON A TEST OF THE INDEX OF METALLURGICAL LITERATURE OF WESTERN RESERVE UNIVERSITY  
 6454 5957 RANDOMIZED BINARY SEARCHING WITH TREE STRUCTURES  
 6454 5960 A COMPARISON OF DISKS AND TAPES  
 6455 6283 AUTOMATIC MESSAGE RETRIEVAL BY ASSOCIATIVE TECHNIQUES  
 6456 6896 ABOUT THE THEORY OF OPERATING=PROCESSES  
 6456 6917 AUTOMATIC RETRIEVAL OF LEGAL LITERATURE, WHY AND HOW  
 6456 7231 THE MECHANIZED LIBRARY  
 6456 7545 A PROPOSED SYSTEM FOR THE COLLECTION, CORRECTION AND REARRANGEMENT OF LARGE MASSES OF DATA  
 6456 7880 SECONDARY KEY RETRIEVAL USING AN IBM 7090-1301 SYSTEM  
 6456 8170 SPARES ESTIMATING, WITH EASE  
 6456 8199 THE USE OF SUBORDINATE AND COORDINATE INDEXES VS. THE SCANNING OF THEIR OUTPUTS  
 6456 8200 A CENTRAL INFORMATION RETRIEVAL SYSTEM  
 6456 8201 AN EVALUATION OF LINKS AND ROLES AS RETRIEVAL TOOLS  
 6456 8221 INPUT DATA SOURCE LIMITATIONS FOR REAL=TIME OPERATION OF DIGITAL COMPUTERS  
 6456 8471 THE LITERATURE ANALYSIS PROJECT OF THE AMERICAN RHEUMATISM ASSOCIATION  
 6456 8528 STORAGE AND RETRIEVAL OF DOCUMENTARY INFORMATION = METHODS, MEANS, COSTS, A GUIDE FOR EQUIPMENT SELECTION

### 3.73 APPLICATIONS INFORMATION RETRIEVAL = FILE MAINTENANCE

6455 6232 FILE MANAGEMENT  
 6455 6233 INTERCHANGEABLE RANDOM ACCESS DISKS  
 6455 6234 CARD RANDOM ACCESS MEMORY  
 6455 6235 RANDOM ACCESS FILE SYSTEM DESIGN  
 6455 6236 RANDOM ACCESS STORAGE DEVICES  
 6456 6617 A LABELLING AND LOOKUP SYSTEM FOR HANDLING VARIABLE FORMAT RECORDS  
 6456 7128 THE MATHEMATICAL MAGPIE  
 6456 7231 THE MECHANIZED LIBRARY  
 6456 7232 DESIGN AUTOMATION UTILIZING A MODIFIED POLISH NOTATION  
 6456 7544 THE COMPUTER SEEN AS A TECHNOLOGICAL AID TO HUMANITIES RESEARCH IN THE INDEX TO THE 'REVISTA DE FILOLOGIA ESPANOLA'  
 6456 7545 A PROPOSED SYSTEM FOR THE COLLECTION, CORRECTION AND REARRANGEMENT OF LARGE MASSES OF DATA  
 6456 7594 A PROGRAMMER'S UTILITY FILING SYSTEM  
 6456 7639 A GENERAL PURPOSE PROGRAMMING SYSTEM FOR RANDOM ACCESS MEMORIES  
 6456 7847 NOTES ON A COMPUTER MAINTAINED MICROFILM INFORMATION RETRIEVAL SYSTEM  
 6456 8149 LIST=PROCESSING METHODS FOR ORGANIZING FILES OF LINKED RECORDS  
 6456 8202 SEMINAR ON MACROCODING DEVICES FOR DOCUMENT MANAGEMENT  
 6456 8356 SYMBOLIC NOTATIONS FOR STATISTICAL TABLES AND AN APPROACH TOWARDS AUTOMATIC SYSTEM DESIGN

### 3.74 APPLICATIONS INFORMATION RETRIEVAL = SEARCHING

6451 5006 EFFECTIVE INFORMATION=SEARCHING STRATEGIES WITHOUT 'PERFECT' INDEXING  
 6452 5275 CASE STUDY OF CRAM, A NEW ELEMENT IN BANKING AUTOMATION  
 6453 5622 CENTRALIZATION AND DOCUMENTATION  
 6453 5635 GENERIC SEARCHING BY USE OF ROTATED FORMULA INDEXES  
 6454 5957 RANDOMIZED BINARY SEARCHING WITH TREE STRUCTURES  
 6455 6176 SEQUENCE DETERMINATION IN BIOPOLYMERS  
 6455 6329 TAPE SEARCHING TECHNIQUES  
 6456 6617 A LABELLING AND LOOKUP SYSTEM FOR HANDLING VARIABLE FORMAT RECORDS  
 6456 6618 ON=LINE STOCK QUOTATION  
 6456 6619 AUTOMATIC PREPARATION OF SELECTED TITLE LISTS FOR CURRENT AWARENESS SERVICES AND AS ANNUAL SUMMARIES  
 6456 6912 STORAGE AND RETRIEVAL, A SYSTEM FOR EVERY NEED  
 6456 6913 ROTADEX, A NEW INDEX FOR GENERIC SEARCHING OF CHEMICAL COMPOUNDS  
 6456 6918 DATA RETRIEVAL  
 6456 6919 SDAR, SELECTIVE INFORMATION DISSEMINATION AND RETRIEVAL  
 6456 6920 A SEARCHING PROCEDURE FOR INFORMATION RETRIEVAL  
 6456 6945 LISTS AND WHY THEY ARE USEFUL

APPLICATIONS = INFORMATION RETRIEVAL

6562 7200 AUTOMATION AND THE ADMINISTRATIVE PROCESS  
 6562 7215 APPLICATION OF AN ASSOCIATIVELY ADDRESSED, DISTRIBUTED MEMORY  
 6562 7233 THE SINGULARITY SUB-LINK, A NEW TOOL FOR USE IN THE STORAGE AND RETRIEVAL OF INFORMATION  
 6564 7833 THE SITING OF FRAGMENTS  
 6564 7847 NOTES ON A COMPUTER MAINTAINED MICROFILM INFORMATION RETRIEVAL SYSTEM  
 6565 8117 THE GENERATION OF A UNIQUE MACHINE DESCRIPTION FOR CHEMICAL STRUCTURES, A TECHNIQUE DEVELOPED AT CHEMICAL ABSTRACTS SERVICE  
 6565 8203 ADVANCES IN AUTOMATIC CHEMICAL SUBSTRUCTURE SEARCHING TECHNIQUES  
 6565 8342 A CONNECTIVITY CODE FOR USE IN DESCRIBING CHEMICAL STRUCTURES  
 6566 8528 STORAGE AND RETRIEVAL OF DOCUMENTARY INFORMATION - METHODS, MEANS, COSTS, A GUIDE FOR EQUIPMENT SELECTION  
 6566 8529 RETRIEVAL OF TREE STRUCTURES BY THE METHOD OF 'COORDINATE SEQUENCES' IN THE FRAME OF ALGOL LANGUAGE  
 6566 8530 A METHOD OF SEARCHING FOR INFORMATION AND ITS USE IN THE ELECTRONIC COMPUTER REALIZATION OF THE ALGORITHM OF CRITICAL PATH DETERMINATION

## 3.75 APPLICATIONS

## INFORMATION RETRIEVAL - VOCABULARY

6454 5961 EXTENSIVE RELATIONS AS THE NECESSARY CONDITION FOR THE SIGNIFICANCE OF 'THESAURI' FOR MECHANIZED INDEXING  
 6456 6620 COMPILING A TECHNICAL THESAURUS  
 6456 6621 CORRELATIVE INDEXES, IX. VOCABULARY CONTROL  
 6456 6622 CORRELATIVE INDEXES. X. SUBJECT-INDEX QUALITIES  
 6562 7166 LINGUISTIC STATISTICS OF LEGAL INDEXING  
 6562 7230 A TECHNIQUE FOR HANDLING LONG TECHNICAL TERMS IN HIGH SPEED INFORMATION RETRIEVAL  
 6564 7881 A MECHANIZED INFORMATION AND DOCUMENT RETRIEVAL SYSTEM  
 6565 8204 GRAPHIC SYMBOLS FOR PROBLEM DEFINITION AND ANALYSIS, A STANDARDS WORKING PAPER  
 6565 8205 KEYWORDS AND CLUMPS, RECENT WORK ON INFORMATION RETRIEVAL AT THE CAMBRIDGE LANGUAGE RESEARCH UNIT  
 6566 8471 THE LITERATURE ANALYSIS PROJECT OF THE AMERICAN RHEUMATISM ASSOCIATION  
 6566 8478 SEMANTIC PROBLEMS OF MACHINE TRANSLATION

## 3.79 APPLICATIONS

## INFORMATION RETRIEVAL - MISCELLANEOUS

6451 4997 THE USE OF THE CONTOURS OF SYMBOLS IN AUTOMATIC CHARACTER RECOGNITION  
 6451 4998 THE AUTOMATIC DISTINCTION OF CHARACTERS BY ELEMENTS OF THEIR FORM  
 6451 4999 AUTOMATIC READING OF CHARACTERS IN A PRINTED LINE  
 6451 5000 BASIC METHODS FOR AUTOMATIC READING AND RECOGNITION OF TEXT MATTER  
 6452 5305 ON AN INFORMATION LANGUAGE FOR GEOMETRY AND A TRANSLATION ALGORITHM FROM RUSSIAN INTO THIS INFORMATION LANGUAGE  
 6452 5324 NEW ORGANIZATION FOR SCIENTIFIC-TECHNICAL AND ECONOMIC INFORMATION IN POLAND, PART I + PART II  
 6452 5325 SIGNIFICANCE OF THE PROBABILITY CALCULUS IN LIBRARY SCIENCE  
 6452 5433 A CONTOUR-MAP PROGRAM FOR X-RAY CRYSTALLOGRAPHY  
 6453 5527 THE JOURNALS OF INORGANIC CHEMISTRY  
 6453 5622 CENTRALIZATION AND DOCUMENTATION  
 6453 5638 THE COMPUTER-STORED THESAURUS AND ITS USE IN CONCEPT PROCESSING  
 6454 5909 EVOLUTION OF MEDICAL TERMINOLOGY THROUGH COMPUTER TECHNIQUES  
 6454 5962 A TECHNIQUE FOR COMPUTER DETECTION AND CORRECTION OF SPELLING ERRORS  
 6454 5963 GOVERNMENT SERVICES FOR TECHNICAL INFORMATION  
 6454 5964 TECHNICAL INFORMATION FOR RESEARCH PROGRAM MANAGEMENT  
 6454 5965 DEFENSE DOCUMENTATION CENTER (DDC) FOR SCIENTIFIC AND TECHNICAL INFORMATION  
 6454 5966 THE ROLE OF THE DEPARTMENT OF COMMERCE  
 6454 5967 THE SCIENTIFIC AND TECHNICAL INFORMATION PROGRAM OF THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
 6454 5968 REPACKAGING OF SCIENTIFIC AND TECHNICAL INFORMATION  
 6454 5969 THE AUTOMATIC ENCODING OF CHEMICAL STRUCTURES  
 6455 6214 INFORMATION SEARCH IN A DICTIONARY BASED ON THE METHOD OF COMPRESSING CODES  
 6455 6269 GENERALIZATION OF AN ELEMENTARY PERCEIVING AND MEMORIZING MACHINE  
 6455 6284 RECORD IDENTIFICATION USING VARIABLE ALPHANUMERIC NAMES  
 6456 6614 THE CHARTER, A 'MUST' FOR EFFECTIVE INFORMATION SYSTEM PLANNING AND DESIGN  
 6456 6623 RESEARCH IN AUTOMATIC GENERATION OF CLASSIFICATION SYSTEMS  
 6456 6624 INFORMATION RETRIEVAL  
 6456 6625 RAPID STRUCTURE SEARCHES VIA PERMUTED CHEMICAL LINE-NOTATIONS  
 6561 6912 STORAGE AND RETRIEVAL, A SYSTEM FOR EVERY NEED  
 6561 6921 SCIENTIFIC AND TECHNICAL LIBRARIES, THEIR ORGANIZATION AND ADMINISTRATION  
 6562 7169 AN ELECTRONIC FORMS FILE, NEW ASSISTANCE FOR LEGAL DRAFTING  
 6562 7170 DECISION PREDICTION BY COMPUTERS, NONSENSE CUBED, AND WORSE  
 6562 7172 CODING CLINICAL LABORATORY DATA FOR AUTOMATIC STORAGE AND RETRIEVAL  
 6562 7204 MILITARY INFORMATION SYSTEMS  
 6562 7234 THE IMPACT OF INFORMATION RETRIEVAL ON LAW LIBRARIES  
 6563 7542 AN INVENTORY OF FIFTEEN MILLION WORDS  
 6563 7595 SOVIET REVIEW OF MACHINE INFORMATION-LOGICAL METHODS IN CHEMISTRY  
 6563 7596 THE ATOM CONNECTIVITY MATRIX (ACM) AND ITS CHARACTERISTIC POLYNOMIAL (ACMCP)  
 6563 7597 THE ATOM CONNECTIVITY MATRIX CHARACTERISTIC POLYNOMIAL (ACMCP) AND ITS PHYSICO-GEOMETRIC (TOPOLOGICAL) SIGNIFICANCE  
 6563 7598 WHAT ARE THE PESTICIDE INFORMATION PROBLEMS. A PANEL DISCUSSION  
 6563 7599 STORAGE AND RETRIEVAL OF INFORMATION ON PESTICIDES REGISTERED UNDER THE FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT  
 6563 7600 THE INFORMATION RETRIEVAL PROBLEM AS APPLIED TO AGRICULTURAL CHEMICALS  
 6563 7601 THE ROLE OF UNIVERSITY WORKERS IN THE PROBLEMS OF PESTICIDE INFORMATION  
 6563 7602 PROBLEMS IN HANDLING PESTICIDE INFORMATION  
 6564 7882 THE COPYRIGHT LAW, IS IT A ROADBLOCK TO INFORMATION RETRIEVAL  
 6564 7883 MANPOWER FOR TECHNICAL INFORMATION WORK, A PILOT STUDY

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6564 7993 OBSERVATIONS CONCERNING COMPUTATION, DEDUCTION, AND HEURISTICS  
 6564 8040 ASSOCIATIVE MEMORY SYSTEM IMPLEMENTATION AND CHARACTERISTICS  
 6565 8206 DESIGNING A TECHNICAL INFORMATION CENTER  
 6565 8207 SOURCES AND MATERIAL SELECTION  
 6565 8208 REPROGRAPHY  
 6565 8209 COMPUTER PROGRAM FOR THE LINCO SYSTEM  
 6565 8210 DIGITAL DATA DISPLAY SYSTEMS, AN ASSESSMENT  
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 6565 8212 TESTS ON ABSTRACTS JOURNALS  
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## 5.11 MATHEMATICS OF COMPUTATION

NUMERICAL ANALYSIS = ERROR ANALYSIS, COMPUTER ARITHMETIC

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 6565 8239 NUMBER BASE CONVERSION IN A SIGNIFICANT DIGIT ARITHMETIC  
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 6565 8267 THE PROBLEM OF ERROR IN DIGITAL COMPUTATION  
 6565 8268 THE AUTOMATIC ANALYSIS AND CONTROL OF ERROR IN DIGITAL COMPUTATION BASED ON THE USE OF INTERVAL NUMBERS  
 6565 8269 TECHNIQUES FOR AUTOMATIC ERROR MONITORING AND CONTROL  
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## 5.12 MATHEMATICS OF COMPUTATION

NUMERICAL ANALYSIS = FUNCTION EVALUATION

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MATHEMATICS OF COMPUTATION = NUMERICAL ANALYSIS

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## 5.13 MATHEMATICS OF COMPUTATION

NUMERICAL ANALYSIS = INTERPOLATION, FUNCTIONAL APPROXIMATION

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 6456 6718 ON COMPLETELY RATIONAL CHEBYSHEV APPROXIMATION OBTAINED WITH THE HELP OF TRIGONOMETRIC INTERPOLATION  
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- 6455 6439 SOME THEOREMS USEFUL IN THRESHOLD LOGIC FOR ENUMERATING BOOLEAN FUNCTIONS
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- 6456 6766 COMPLETE SYSTEMS OF NON DECREASING GENERALLY RECURSIVE FUNCTIONS (COMPLETE ISSUE)
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- 6563 7704 A NOTE ON ASYMMETRY IN PHRASE STRUCTURE GRAMMARS
- 6564 7830 A NEW NORMAL-FORM THEOREM FOR CONTEXT-FREE PHRASE STRUCTURE GRAMMARS
- 6564 7905 AN ALGOL 60 COMPILER
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- 6564 7999 ON THE RELATIVE EFFICIENCIES OF CONTEXT-FREE GRAMMAR RECOGNIZERS
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- 6451 5109 THE ALGEBRAIC EQUIVALENCE OF SUBSETS OF CLASSES
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- 6453 5744 STRONG AND WEAK REDUCIBILITY OF ALGORITHMIC PROBLEMS
- 6455 6323 AN EXPERIMENT IN NON-PROCEDURAL PROGRAMMING
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 6566 8657 RANDOM ACCESS STORED-PROGRAM MACHINES, AN APPROACH TO  
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 6566 8658 REDUCING THE PROBLEM OF MEMORY ALLOCATION DURING PROGRAM  
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 6453 5745 ALGORITHMS FOR IDENTIFICATION OF SYMBOL SEQUENCES  
 6454 6075 A COMPOSITION METHOD FOR NORMAL MARKOV ALGORITHMS  
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 6562 7369 ELEMENTARY RELATIONS BETWEEN THE FUNDAMENTAL THEOREM  
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 6563 7708 REPRESENTATION OF OPERATORS ON A MEMORY

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6453 5746 METHODS OF SUCCESSIVE RESTRICTIONS IN COMPUTATIONAL  
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 6453 5747 COMPUTER INVESTIGATION OF ORTHOGONAL LATIN SQUARES OF  
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 6454 6094 INFORMATION THEORY AND CODING  
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 6561 6951 SOLUTION OF COMBINATORIAL PROBLEMS USING GENERATING  
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 6561 6952 MULTIPLE-PRECISION ARITHMETIC AND THE EXACT CALCULATION  
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 6561 7020 MAXIMUM CELLULAR BOOLEAN FUNCTIONS AND PERFECT GRAY CODES  
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 6565 8340 EXISTENCE OF  $K$ -EDGE CONNECTED ORDINARY GRAPHS WITH  
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 6564 7833 THE SITING OF FRAGMENTS  
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#### 5.32 MATHEMATICS OF COMPUTATION COMBINATORIAL AND DISCRETE MATHEMATICS = GRAPH THEORY

6452 5433 A CONTOUR-MAP PROGRAM FOR X-RAY CRYSTALLOGRAPHY  
 6452 5464 ADVANCES IN ELECTRONICS AND ELECTRON PHYSICS, VOL. 18  
 6453 5749 GIT, A HEURISTIC PROGRAM FOR TESTING PAIRS OF DIRECTED LINE  
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 6455 6437 APPLICATION OF A FINITE SET COVERING THEOREM TO THE  
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 6561 6984 THE INDEX OF PRIMITIVITY OF A NON-NEGATIVE MATRIX  
 6561 7021 A NOMOGRAPHIC METHOD OF STORING A FUNCTION OF SEVERAL  
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 6563 7671 MATRIX FUNCTIONS AND APPLICATIONS, PT. V, SIMILARITY  
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 6564 8002 ON THE MINIMAL DECOMPOSITION OF FINITE PARTIALLY ORDERED  
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 6564 8004 PROC. SYMP. THEORY OF GRAPHS AND ITS APPLICATIONS,  
 SMOLENICE, CZECH., JUNE 1963  
 6564 8005 APPLICATIONS OF GRAPH THEORY TO MATHEMATICAL LOGIC AND  
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 6564 8006 GENERALIZATIONS OF THE FIVE COLOR THEOREM  
 6564 8007 AN EDGE COLORING PROBLEM  
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 6564 8009 RECURSIVELY CALCULABLE FUNCTIONS OF GRAPHS  
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 6454 6076 DETERMINATION OF DIVISION ALGEBRAS WITH 32 ELEMENTS  
 6456 6625 RAPID STRUCTURE SEARCHES VIA PERMUTED CHEMICAL  
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 6561 6893 EXPECTED CRITICAL PATH LENGTHS IN PERT NETWORKS  
 6562 7220 MACHINE-GENERATED PROBLEMS-SOLVING GRAPHS  
 6566 8451 SOME RECENT ADVANCES AND CURRENT PROBLEMS IN NUMBER THEORY  
 6566 8668 LONGEST 'SEPARATED' PATHS AND LOOPS IN AN  $N$  CUBE  
 6566 8669 A GRAPH-THEORETIC ALGORITHM FOR THE SOLUTION OF A LINEAR  
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 6452 5434 LINEAR PROGRAMMING AND EXTENSIONS  
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 6452 5437 A MATHEMATICAL METHOD OF PLANNING ENERGY REQUIREMENTS IN  
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 6453 5512 APPLIED MATHEMATICS AS USED IN THEORETICAL CHEMISTRY  
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 6453 5540 A SERIAL TECHNIQUE TO DETERMINE MINIMUM PATHS  
 6453 5591 SENSITIVITY ANALYSIS OF COST COEFFICIENT ESTIMATES, THE CASE  
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 6453 5757 LINEAR PROGRAMMING IN INDUSTRY-THEORY AND APPLICATIONS. (2D ED)  
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 6563 7713 PRODUCTION MODEL IN DYNAMIC PROGRAMMING  
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 6563 7731 FINITE AUTOMATA  
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 6452 5189 1963 PICTORIAL REPORT ON THE COMPUTER FIELD  
 6452 5364 THE TIME-SHARING FACILITIES OF THE KDF 9 COMPUTER  
 6452 5440 OPTIMUM DESIGN OF DIGITAL CONTROL SYSTEMS  
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 6564 8038 DISK FILE APPLICATIONS  
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 6564 8040 ASSOCIATIVE MEMORY SYSTEM IMPLEMENTATION AND CHARACTERISTICS  
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 6565 8372 ADAM, A PROBLEM-ORIENTED SYMBOL PROCESSOR  
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 6566 8725 DATA CENTRAL MESSAGE SWITCHING SYSTEMS

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 6452 5363 GROUP OPERATIONS OF THE KIEV COMPUTER  
 6452 5466 THE KDF 9 COMPUTER SYSTEM  
 6452 5467 MATHEMATICAL PARAMETERS OF THE GENERAL PURPOSE DIGITAL COMPUTER KIEV  
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 6455 6146 MULTIPLE COMPUTER SYSTEMS  
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 6561 7082 COMPUTER PROGRESS IN CZECHOSLOVAKIA. 1. A SELF-CORRECTING COMPUTER  
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 6565 8066 EXTRAPOLATIONS  
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 6456 6811 NOTES ON OPERATIONAL EXPERIENCES WITH THE URAL-1 COMPUTER  
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